



SERVICE MANUAL

122MKII/112RMKII/112MKII

Stereo Cassette Deck

NOTES

As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings contained in this manual.

- * PC boards shown viewed from parts side.
- * Parts marked with * require longer deliver time.
- ★ A Parts marked with this sign are safety critical components. They must always be replaced with identical components – refer to the TEAC Parts List and ensure exact replacement.
- * Parts not shown in the parts lists, or parts, though listed, having no parts numbers, are not general "ready-to-supply" parts.

注意

標準抵抗,コンデンサーは省略してあります。回路図および基板 図を参照してください。

- 1. プリント基板図は部品面が示されています。
- *印の部品は納期が若干かかります。 あらかじめご了承くだ さい。
- ① 印は安全規格重要部品です。 交換するときは必ずティアック指定の部品を使用してください。
- 4. リストされていない部品は原則としてサービス供給部品として 取扱っていません。

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INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

Effective: AUGUST, 1993 4A0735



1. SPECIFICATIONS

仕様

Tape: Compact cassette C-30 to C-90
(Normal/CrO2/Metal)

Track Format: 4-track, 2-channel

Head Configuration

122MK II : 4-track, 2-channel

Record (x1) / repro (x1) combination

head (amorphous)

Half track

Erase head (x1) (ferrite)

112RMK II: 4-track, 2-channel

Record (x1) / repro (x1) combination

rotary head (permalloy)

Half track

Erase head (x1) (ferrite)

112MK II : 4-track, 2-channel

Record/repro head (x1) (permalloy)

Half track

Erase head (x1) (ferrite)

Motor

122MK II : FG servo direct-drive capstan motor x1

DC servo reel motor x1
DC ancillary motor x1

112RMK II / 112MK II : DC servo capstan motor x1

DC reel motor x1
DC ancillary motor x1

Tape Speed: 4.8 cm/sec.(1-7/8")
Pitch Control: +/-12 % (approx.)

Line Input

-Rear RCA jack/front 1/4" jack Nominal Input Level: -10 dBV (0.3 V) Minimum Input Level: -18 dBV (126 mV) Input Impedance: 20k ohms, unbalanced

-XLR-type jack (standard on 122MK III; optional on

112RMK II / 112MK II - LA-112 required)
Nominal Input Level: +4 dBm (1.23 V)
Input Impedance: 10k ohms, balanced

Line Output

-RCA jack (rear)

Nominal Output Level: -10 dBV (0.3 V)
Maximum Output Level: -2 dBV (0.8 V)

Output Impedance: 100 ohms

Load Impedance: 25k ohms or more

-XLR-type jack (standard on 122MK ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$; optional on

112RMK II / 112MK II - LA-112 required)
Nominal Output Level: +4 dBm (1.23 V)
Minimum Load Impedance: 600 ohms

Headphone Output: 100 mW (8-ohm load)

Bias/Erase Frequency:

122MK III / 112RMK II : 150 kHz

112MK II : 100 kHz

Equalization: $3180 \mu s + 70 \mu s$ (CrO2/Metal) $3180 \mu s + 120 \mu s$ (Normal)

Reference Recording Level:

250 nWb/m = 0 VU (315 Hz) (EIAJ); with Dolby: 200 nWb/m = -1 VU

Remote Connector: 25-pin D-sub

Power Requirements:

USA/Canada: 120 V AC, 60 Hz U.K./Australia: 240 V AC, 50 Hz

Europe: 230 V AC, 50 Hz Japan: 100 V AC, 50-60 Hz

Consumption:

122MK III / 112RMK II : 23 W

112MK II: 20 W

Dimensions (WxHxL): 482 mm x 132 mm (rubber feet not included) x 356.3 mm (19"x 5-3/16" x 14")

Weight:

122MK III / 112MK II : 8.4 kg (18-8/16 lbs.)

112RMK II: 8.7 kg (19-3/16 lbs.)

Typical Performance

Speed Accuracy:

122MK III: +/-0.5 %

112RMK II / 112MK II : +/- 1.0 %

Wow & Flutter 1): less than 0.04 % WRMS

Fast Winding Time: 70 sec.(approx.) with C-60

Frequency Response, Overall 2) (EIAJ, without NR)

122MK ■ : 25 Hz to 20 kHz, +/-3 dB (Metal)

25 Hz to 19 kHz, +/-3 dB (CrO2)

25 Hz to 17 kHz, +/-3 dB (Normal)

112RMK II : 25 Hz to 19 kHz, +/-3 dB (Metal)

25 Hz⁴ to 18 kHz, +/-3 dB (CrO2)

25 Hz to 17 kHz, +/-3 db (Normal)

112MK II : 25 Hz to 19 kHz, +/-3 dB (Metal) 25 Hz to 18 kHz, +/-3 dB (CrO2)

25 Hz to 18 KHz, +/-3 dB (CrO2)

25 Hz to 16 kHz, +/-3 dB (Normal)

Distortion 2): less than 1.0 %, at 1 kHz, 160 nWb/m (Metal) S/N Ratio 2) (metal tape)

122MK II/112RMK II: 60 dB (without NR, ref. 3 % THD, WTD)

112MK II : 59 dB (without NR, ref. 3 % THD, WTD)

68 dB (with Dolby-B NR, over 5 kHz)

78 dB (with Dolby-C NR, over 1 kHz)

Channel Separation 2): 45 dB or better (1 kHz)

Erase Ratio 2): 65 dB or better (1 kHz)

In these specifications, 0 dBV is referenced to 1 Volt, and 0 dBm is referenced to 0.775 Volt. Actual voltage levels are shown in parenthesis.

- 1) Measurements made with TEAC test tape MTT-111
- Measurements made with TEAC blank test tape MTT-5571 (Metal), MTT-5562 (CrO2) and MTT-5512 (Normal).

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■ Changes in specifications and features may be made without notice or obligation.

- この仕様は、0dBV = 1V, 0dBm = 0.775Vで表示しています。 実際の電圧は () で示しています。
- 1) この項の仕様は、テスト・テープ TEAC MTT-111によ ります。
 - 2) この項の仕様は、ブランク・テープ TEAC MTT-5571 (METAL), MTT-5562 (CrO2), MTT-5512 (NORMAL) によります。
- 仕様および外観は、予告なく変更する場合があります。
- * ドルビー・ノイズリダクション及びHXプロ・ヘッドルームエ クステンションはドルビーラボラトリーズライセンシングコ ーポレーションからの実施権に基づき製造されています。 HXプロはバングアンドオルフセンの考案です。

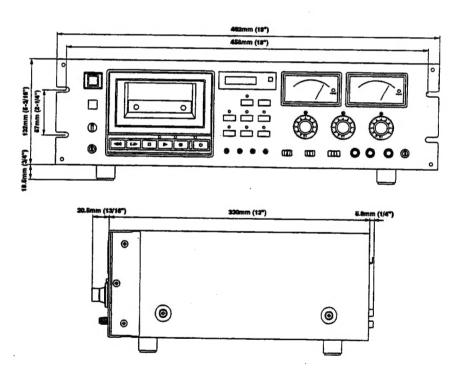


Illustration shows 122MK III. The measurements of the three models are the same.

イラストは122MK III のものです。 112RMK II, 112MK II も同寸法です。

2. MECHANICAL CHECKS AND ADJUSTMENTS

機構部の確認と調整

2-1. Pinch Roller Pressure (122MK III,112RMK II,112MK II,)

- 1. Attach a spring scale to the pinch arm.
- Push up the cassette switch (transport protection lever), then while holding the cassette switch up, press the PLAY button to engage the pinch roller and capstan shaft
- 3. Pull the spring scale in direction indicated in Fig. 2-1 until the pinch roller fully loses contact with the capstan shaft; then slowly ease the scale so the pinch roller moves back toward the capstan shaft.
- Note the reading on the spring scale the moment the pinch roller again starts rotating. The scale should read 380 to 480 g.
 - * Check both in FWD/PLAY (right pinch roller) and in REV/PLAY (left pinch roller) for 112RMK II.

- 2-1. ピンチローラ圧着力 (122MK III,112RMK II,112MK II)
- 1. ピンチ・アームにバネ秤を掛ける。
- カセット・イン・スイッチ・アームを上方に押し、PLAYボタンを押して、プレイ・モードにする。 測定中、スイッチ・アームは上方に押し続けること。
- 3. ピンチ・ローラがキャプスタン・シャフトから完全に離れるように秤を矢印の方向(図2-1)に引っ張た後、ピンチ・ローラが再びキャプスタン・シャフトに接触するように徐々に戻す。
- 4. ピンチ・ローラが回り始めるときの値を読む。
 - * 112RMK II は、FWD/PLAY (右ピンチ・ローラ)、REV/ PLAY (左ピンチ・ローラ) 共確認する。

規格:380~480 g

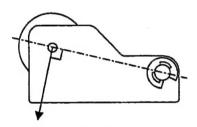


Fig. 2-1

2-2-A. Tape Positioning (122MK III)

Adjustment Tools:

Head adjustment jig "A": Part No. 5736006600
Head adjustment jig "B": Part No. 5736006700

• Erase head spacer; 0.05mm : Part No. 5801357800

0.1mm : Part No. 5800556200 0.2mm : Part No. 5801197800

2-2-A. テープ走行(122MK III)

調整治具

・ヘッド調整治具A:品番 5736006600

・ヘッド調整治具B: 品番 5736006700

・消去ヘッド・スペーサ 0.05mm : 品番 5801357800

0.1mm : 品番 5800556200 0.2mm : 品番 5801197800

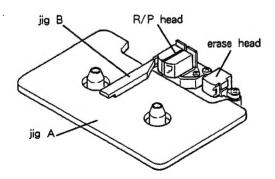


Fig. 2-2

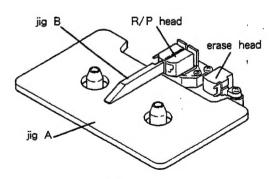


Fig. 2-3

- 1. Adjusting the erase head height
 - Set jig A as shown in Fig. 2-2, then set the deck to PLAY mode.
 - Confirm that jig B smoothly fits into the tape guide groove on the erase head.
 - If it doesn't, add or remove the spacer(s) between the erase head and head base.
- 2. Adjusting the R/P head height
 - As with the erase head, confirm using jig B; for adjustment, use height adjustment screw A (Fig. 2-4).
- 3. Adjusting the R/P head tilt
 - 4). As shown in Fig. 2-3, place jig B against the head in order to confirm the tilt. Perform tilt adjustment with screw B (Fig. 2-4) so that the head is at right angles with respect to jig B.
 - 5). If tilt adjustment screw B is adjusted, revert to 3), then confirm again.
- 4. Adjusting R/P head azimuth
 - As shown in Fig. 2-5, hook up the measuring instruments.
 - Play back the 10 kHz signal on test tape MTT-256, then adjust playback azimuth adjustment screw C (Fig. 2-4) so that the phase difference between L and R channels is 0°.
 - If azimuth adjustment screw C is turned more 45°, revert to 3), then reconfirm.
- 5. Confirming the tape travel
 - When mirror tape MTT-902 is run in PLAY mode, see that the tape is free from curl at each guide portion.
 - 10). If the tape is curled, fine-adjust the R/P head height using screw A [or adjust the erase head height using spacer(s)] then revert to 6) and reconfirm.

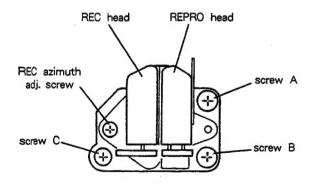


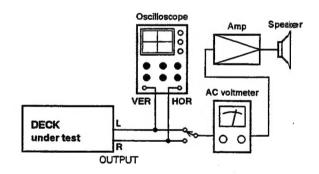
Fig. 2-4

1. 消去ヘッドの高さ調整

- 1). 図2-2のように治具Aをセットし、PLAYモードにする。
- 2). 治具Bが消去ヘッドのテープ・ガイド溝にスムーズに入ることを確認する。
 - そうでない場合は、消去ヘッドとヘッド・ベース間にあるスペーサを追加または除去することにより調整する。
- 2. R/Pヘッドの高さ調整
 - 消去ヘッドと同様に治具Bで確認し、調整は高さ調整ネジA (図2-4) により行う。
- 3. R/Pヘッドのチルト調整
 - 4). 図2-3のように治具Bをヘッドに当ててチルトを確認し、ヘッドが治具Bに対して垂直になるようにチルト調整ネジB(図2-4)で調整する。
 - 5). チルト調整ネジBを調整した場合は、3) 項に戻りそれ以降 を再度確認する。
- 4. R/Pヘッドのアジマス調整
 - 6). 図2-5のように測定器を接続する。
 - 7). テスト・テープMTT-256の10kHzを再生して、Lchと Rch の位相差が 0° になるように再生アジマス調整ネジC(図2-4) で調整する。
 - 8). アジマス調整ネジCを 45°以上回転させた場合は、3) 項に 戻りそれ以降を再度確認する。

5. テープ走行の確認

- PLAYモードでミラー・テープMTT-902を走行させたとき、各ガイド部でテープのカールが無いことを確認する。
- 10). カールしている場合は、R/Pヘッドの高さをネジAで微調 整(または消去ヘッドの高さをスペーサで調整) した後、
 - 6) 項に戻りそれ以降を再度確認する。



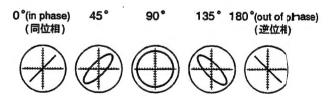


Fig. 2-5

2-2-B. Tape Positioning (112RMK II)

Adjustment Tools:

Head adjustment jig "A": Part No. 5736006600
Head adjustment jig "B": Part No. 5736006700

• R/P head spacer; 0.05mm : Part No. 5801357700

0.1mm : Part No. 5800595000 0.2mm : Part No. 5800595100

2-2-B. テープ走行(112RMK II)

調整治具

・ヘッド調整治具A:品番 5736006600

・ヘッド調整治具B:品番 5736006700

・R/Pヘッド・スペーサ 0.05mm : 品番 5801357700

0.1mm : 品番 5800595000 0.2mm : 品番 5800595100

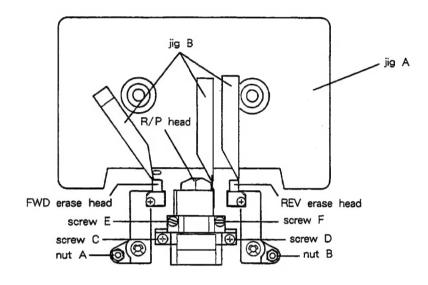


Fig. 2-6

- 1. Adjusting the erase head height
 - Set jig A as shown in Fig. 2-6, then set the deck to FWD/PLAY mode.
 - Confirm that jig B smoothly fits into the tape guide groove on the FWD erase head.

If it doesn't, adjust Allen nut A shown in Fig. 2-6.

- Set the deck to REV/PLAY mode, and in a similar way, adjust the REV erase head using Allen nut B.
- 4). After adjustment is complete, repeat FWD/PLAY, and REV/PLAY for reconfirmation.
- 2. Adjusting the R/P head height
 - As in the confirmation of the erase head height, confirm the R/P head height in FWD/PLAY and REV/PLAY modes using jig B.
 - If the head is both high (or low) in FWD and REV modes, replace the spacer under screws C and D (Fig. 2-6) with a thin (or thick) one. (Add or remove the same number of spacers with the same thickness for both screws C and D.)
 - If jig B smoothly fits into the guide groove in both FWD and REV modes, or the height is opposite (example: high in FWD mode and low in REW mode), it should be deemed acceptable.

1. 消去ヘッドの高さ調整

- 図2-6のように治具Aをセットし、FWD/PLAYモードにする。
- 2). 治具BがFWD用消去ヘッドのテープ・ガイド溝にスムーズ に入ることを確認する。
 - そうでない場合は、図2-6の六角ナットAを調整する。
- 3). REV/PLAYモードにして、同様にREV用消去ヘッドの高さを六角ナットBで調整する。
- 4). 調整後、FWD/PLAY, REV/PLAYを繰り返して再度確認 する。

2. R/Pヘッドの高さ調整

- 消去ヘッドの高さ確認と同様に、FWD/PLAY, REV/ PLAYモードにおけるR/Pヘッドの高さを治具Bで確認する。
 - FWD, REVでヘッドの高さが共に高い(低い)場合 ネジC, D(図2-6)の下のスペーサーを板厚の薄い(厚い) ものに換える。(C, D共同じ厚さのスペーサーを同枚数増減すること)
 - FWD, REV共、治具Bがガイド溝にスムーズに入る場合またはFWD, REVで高さが逆(例: FWD時高い、REW時低い)の場合はOKとする。

- 3. Adjusting the R/P head azimuth
 - Hook up the measuring instruments as shown in Fig. 2-5.
 - 7). Play back the 10 kHz signal on test tape MTT-256 in FWD/PLAY mode, then adjust FWD azimuth adjustment screw E (Fig. 2-6) so that the phase difference between the L and R channels is 0°.
 - Likewise, adjust REV azimuth adjustment screw F so that the phase difference in REV/PLAY mode is 0°.
 - If azimuth adjustment screw E or F is turned more than 45°, revert to 5), then reconfirm.
 - 10). When mirror tape MTT-902 is run in FWD/PLAY and REV/PLAY modes, see that the tape is free from curl at each guide portion. At the same time, see that the tape comes into contact with the lower guide of the R/P head during FWD mode and that the tape comes into contact with the upper guide of the R/P head during REV mode.
 - 11). If the tape is not traveling as described above, fine -adjust Allen nuts A and B on the erase head, then revert to 6) and reconfirm.

2-2-C. Tape Positioning (112MK II)

Adjustment Tools:

· Head adjustment jig "A": Part No. 5736006600

· Head adjustment jig "B": Part No. 5736006700

• Erase head spacer; 0.05mm : Part No. 5801357800

0.1mm : Part No. 5800556200 0.2mm : Part No. 5801197800

• R/P head spacer; 0.05mm : Part No. 5801357700

0.1mm : Part No. 5800595000 0.2mm : Part No. 5800595100

- 1. Adjusting the erase head height
 - 1). Set jig A as shown in Fig. 2-7, then set the deck to PLAY mode.
 - 2). Confirm that jig B smoothly fits into the tape guide groove on the erase head.

If it doesn't, add or remove the spacer(s) between the erase head and head base.

- 2. Adjusting the R/P head height
 - As with the erase head, confirm using jig B, and make adjustment using spacer(s).
- 3. Adjusting the R/P head azimuth
 - As shown in Fig. 2-5, hook up the measuring instruments.
 - Play back the 10 kHz signal on test tape MTT-256, then adjust the azimuth adjustment screw (Fig. 2-7) so that the phase difference between the L and R channels is 0°.
 - If the azimuth adjustment screw is turned more than 45°, revert to 3), then reconfirm.

- 3. R/Pヘッドのアジマス調整
 - 6). 図2-5のように測定器を接続する。
 - 7). FWD/PLAYモードでテスト・テープ MTT-256の 10kHz を再生して、LchとRchの位相差が 0°になるようにFWD 用アジマス調整ネジE (図 2-6) を調整する。
 - 8). 同様に、REV/PLAYモードで位相差が 0° になるように REV用アジマス調整ネジFを調整する。
 - アジマス調整ネジEまたはFを45°以上回転させた場合は、
 項に戻りそれ以降を再度確認する。

4. テープ走行の確認

- 10). FWD/PLAY, REV/PLAYモードでミラー・テープ MTT -902を走行させたとき、各ガイド部でテープのカールが無いことを確認する。 また、FWD時、R/Pヘッドの下のガイドに、REV時、R/Pヘッドの上のガイドにテープが当たることを確認する。
- 11). 上記のようにテープが走行していない場合は、消去ヘッド の六角ナットA, Bで微調整した後、6) 項に戻りそれ以降 を再度確認する。

2-2-C. テープ走行 (112MK II)

調整治具

・ヘッド調整治具A:品番 5736006600

・ヘッド調整治具B: 品番 5736006700

・消去ヘッド・スペーサ 0.05mm : 品番 5801357800

0.1mm : 品番 5800556200 0.2mm : 品番 5801197800

・R/Pヘッド・スペーサ 0.05mm : 品番 5801357700

0.1mm : 品番 5800595000 0.2mm : 品番 5800595100

1. 消去ヘッドの高さ調整・

- 1). 図2-7のように治具Aをセットし、PLAYモードにする。
- 2). 治具Bが消去ヘッドのテープ・ガイド溝にスムーズに入ることを確認する。

そうでない場合は、消去ヘッドとヘッド・ベース間にあるスペーサを追加または除去することにより調整する。

2. R/Pヘッドの高さ調整

3). 消去ヘッドと同様に治具Bで確認し、調整も消去ヘッドと同様にスペーサで行う。

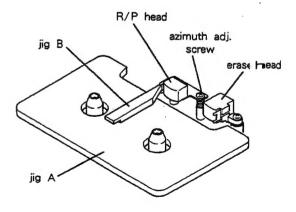


Fig. 2-7

- 4. Confirming the tape travel
 - When mirror tape MTT-902 is run in PLAY mode, see that the tape is free from curl at each guide portion.
 - If the tape is curled, adjust the erase head height using spacer(s), then revert to 4) and reconfirm.

2-3. Reel torque (122MK III, 112RMK II, 112MK II)

- 1. Take-up torque/back tension
 - Set up the cassette torque meter (MTT-8111), then set the deck to PLAY mode (FWD/PLAY mode in the case of the 112RMK II) and read the value on the torque meter. (If the reading has a deflection [the pointer swings], use the center value.) The standard range is as follows:
 - Likewise, put the cassette torque meter (MTT-8121) to the 112RMK II, then set the deck to REV/PLAY mode and read the value on the torque meter.

Take-up torque: 25 to 65 g · cm

Back tension: 122MK III, 112RMK II; 6 to 10 g·cm

112MK II; 2 to 6 g · cm

2. F.FWD/REW torque

Set up the cassette torque meter (MTT-8242), then measure the starting torques in F.FWD and REW operations, respectively.

F.FWD/REW torque: 80 g · cm or more

2-4. Tape speed (122MK III, 112RMK II, 112MK II)

- 1. As shown in Fig. 2-8, connect the frequency counter.
- 2. Load the test tape MTT-111N.
- 3. Let the capstan motor rotate in PLAY mode, then leave it as it is for at least one minute to warm it up.
- 4. Set the PITCH CONT switch to OFF.
- 5. Play back the middle section of the test tape, then adjust trimmer resistor R1 (Fig. 2-9) on the P.CONT PCB so that the frequency counter reads 3000 ± 5 Hz.
- Set the PITCH CONT switch to ON, then set the PITCH CONT knob to the center.
- 7. Play back the middle section of the test tape, then adjust trimmer resistor R2 (Fig. 2-9) on the P.CONT PCB so that the frequency counter reads 3000 ± 5 Hz.
- Upon completion of adjustment, confirm that the following value is obtained at the beginning and end of the tape.

Speed variations: 3000 ± 45 Hz Fluctuation range: within 30 Hz

3. R/Pヘッドのアジマス調整

- 4). 図2-5のように測定器を接続する。
- テスト・テープ MTT-256の10kHzを再生して、LchとRch の位相差が0°になるようにアジマス調整ネジ(図2-7)で 調整する。
- 6). アジマス調整ネジを 45°以上回転させた場合は、3) 項に戻りそれ以降を再度確認する。

4. テープ走行の確認

- 7). PLAYモードでミラー・テープ MTT-902を走行させたとき、各ガイド部でテープのカールが無いことを確認する。
- 8). カールしている場合は、消去ヘッドの高さをスペーサで調整 した後、4) 項に戻りそれ以降を再度確認する。

2-3. リール・トルク (122MK III,112RMK II,112MK II)

- 1. テイクアップ・トルク/バックテンション
 - カセット・トルク・メータ (MTT-8111) を装着し、PLAY モード (112RMK II は、FWD/PLAYモード) にしてトル ク・メータの値を読む。(振れのある場合は中心値とする) 規格値は下記の通り。
- 112RMK II は、同様にカセット・トルク・メータ (MTT-8121) を装着し、REV/PLAYモードにしてトルク・メータの値を読む。

テイクアップ・トルク:25~65 g・cm バックテンション:122MKII,112RMKII;6~10 g・cm 112MKII;2~6 g・cm

2. F.FWD/REW トルク

カセット・トルク・メータ (MTT-8242) を装填し、F.FWD動作およびREW動作の起動トルクをそれぞれ測定する。

F.FWD/REWトルク:80 g・cm以上

2-4. テープ速度

(122MK III,112RMK II,112MK II)

- 1. 図2-8のように、周波数カウンタを接続する。
- 2. テスト・テープ MTT-111Nを装着する。
- 3. PLAYモードでキャプスタン・モータを回転させ、ウォーミングアップするために、少なくとも1分間そのままにしておく。
- 4. PITCH CONTスイッチをOFFにする。
- 5. テスト・テープの中間部を再生し、周波数カウンタの値が 3000 ±5 Hzになるように P.CONT PCBの半固定抵抗 R1 (図2-9) を調整する。
- 6. PITCH CONTスイッチをONにし、PITCH CONTつまみを中央にセットする。
- 7. テスト・テープの中間部を再生し、周波数カウンタの値が 3000 ±5 Hzになるように P.CONT PCBの半固定抵抗 R2 (図2-9) を調整する。

9. Confirm that the frequency is 2700 Hz or less when the PITCH CONT knob is set to minimum with the PITCH CONT switch ON and 3300 Hz or more when the PITCH CONT knob is set to maximum.

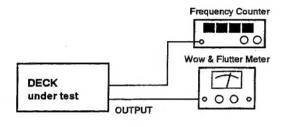


Fig. 2-8

2-5. Wow and flutter (122MK III, 112RMK II, 112MK II)

Note: Measurements should be made in PLAY mode at the beginning, middle and end of the tape, respectively. (However, avoid the first graduation on the cassette shell for the beginning and end of the tape.)

- As shown in Fig. 2-8, connect the wow & flutter meter to the deck.
- 2. Play back the test tape MTT-111N.
- 3. Measure the wow-flutter value. The standard range is as follows:

within 0.06% (WRMS)

2-6. Adjusting the quick reverse voltage (112RMK II)

- Connect the DC voltmeter between TP2 (Fig. 2-10) on the CONT S PCB and GND.
- When blank tape MTT-5512 is played back in the REV /PLAY mode, adjust R26 (Fig. 2-10) on the CONT S PCB so that the voltage at TP2 reads 2.5 V.

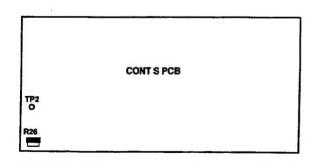


Fig. 2-10

8. 調整後、テープの巻始めと巻終わりで、下記の値が得られることを確認する。

速度偏差:3000 ± 45 Hz 変動幅:30 Hz 以内

9. PITCH CONTスイッチONで、PITCH CONTつまみを最小 にしたとき 2700Hz以下、最大にしたとき 3300Hz以上である こと。

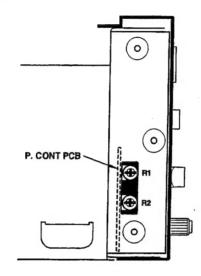


Fig. 2-9

2-5. ワウ・フラッタ (122MK III,112RMK II,112MK II)

注意:測定は再生法により、テープの巻始め、中間部、巻終わりでそれぞれ行なってください。(但し、カセット・ハーフの巻始めと巻終わりの1目盛りは除く)

1. 図2-8のように、ワウ・フラッタ・メータをデッキに接続する。 2. テスト・テープ MTT-111N を再生する。

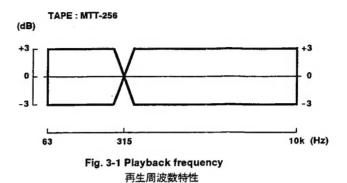
ワウ・フラッタ値を測定する。規格値は次の通り。
 0.06 %以内 (WRMS)

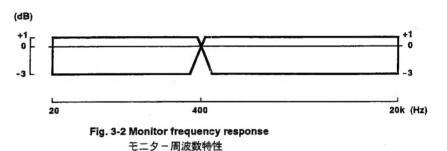
2-6. クイック・リバース電圧調整 (112RMK II)

- 1. CONT S PCBのTP2 (図2-10) とGND間にDC電圧計を接続する。
- REV/PLAYモードで、ブランク・テープ MTT-905 を再生したとき、TP2の電圧が 2.5V になるように CONT S PCBのR26 (図2-10) を調整する。

3. AMPLIFIER SECTION CHECKS AND ADJUSTMENTS

アンプ部の確認と調整





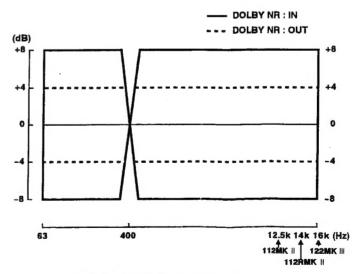


Fig. 3-3 Overall frequency response 録再周波数特性

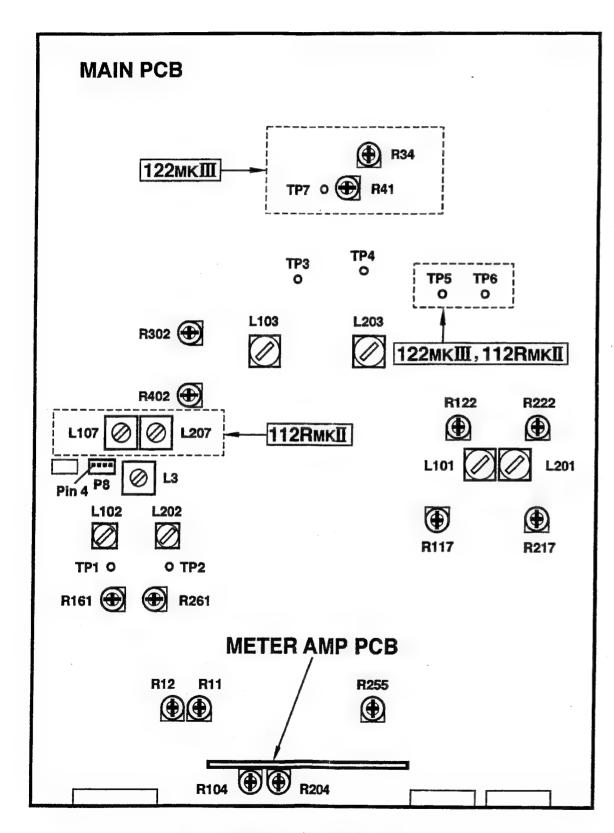


Fig. 3-4 Adjustment and test point locations 調整とテスト・ポイント個所

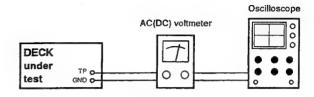


Fig. 3-5

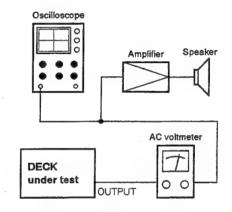


Fig. 3-6

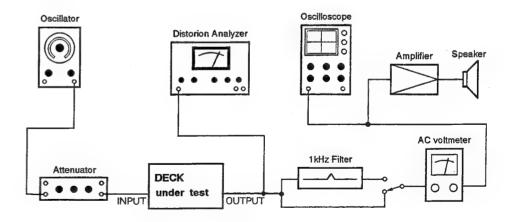


Fig. 3-7

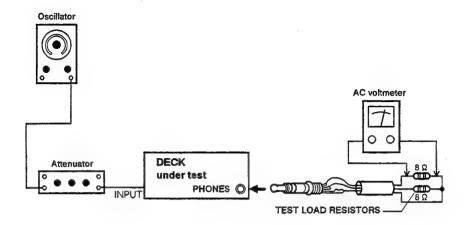


Fig. 3-8

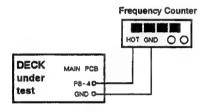


Fig. 3-9

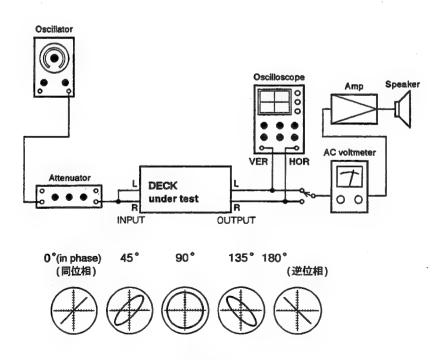


Fig. 3-10

122MKH/112KMKH/112MKH

3-1. Precautions

- Before performing adjustments and checks clean and demagnetize the entire tape path.
- 2. Indication, for example, "R122/R222" means that R122 is for Lch, R222 is for Rch.
- 3. O dBm is referenced to 0.775 V. O dBV is referenced to 1.0 V.
- 4. The AC voltmeter used in the procedures must have an input impedance of 1 M Ω or more.
- 5. Unless otherwise specified, refer to Fig. 3-4 for location of test points and adjustment points.
- 6. Unless otherwise specified, leave all keys and switches in the OFF position.

3-1. 注意

- 1. アンプ部の調整・確認の前に、テープ走行系の消磁と清掃を行ってください。
- 2. R122/R222 と記されている部番は、Lch/Rchを示します。
- 3. 0dBm = 0.775V, 0dBV = 1.0Vで表示しています。
- 4. レベル計は、入力インピーダンス $1M\Omega$ 以上のものを使用してください。
- 5. 特に指示のない場合、テスト・ポイントおよび調整個所は図 3-4を参照してください。
- 6. 特に指示のない限り、キーおよびスイッチ類はOFFにしておいてください。

3-2. Playback System 再生系

Test Mode: PLAY
MONITOR switch: AUTO

Adjustment Item 調整項目	Preliminary 準備・設定	Input Signal 入力信号	Adjustment Point 調整個所	Measurement Method / Value Adjusted For 测定方法 · 調整值
1. Reproduce reference level 再生基準レベル	Connection (接続): Fig. 3-5	MTT - 150	R122/R222	122MK II., 112RMK II : TP5/TP6: - 6dBm 112MK II : TP3/TP4: - 6dBm
	Connection (接続): Fig. 3-6		OUTPUT cont.	OUTPUT (RCA, Lch): - 11dBV
			R255	OUTPUT (RCA, Rch): - 11dBV
			(Nominal position	do not move the OUTPUT cont. i) I つまみを動かさないこと。(規定位置)
2. Repro. Frequency Response 再生周波数特性	Connection (接続): Fig. 3-6	MTT - 256	R117/R217	OUTPUT (RCA): Same output level at 10 kHz and 315 Hz 10kHzの出力レベルが315Hzの出力レベルと同 じになるように調整
			Check	Specs (規格): Fig. 3-1
3. Level Difference between Channels チャネル間レベル差	Same as above 同上	Same as above 同上	Check only	within 3 dB (within the limits of reproduce frequency response) (再生周波数特性規格内において)
4. Level Fluctuation レベル変動	Same as above 同上	Same as above 同上	Check only	63 Hz~6.3 kHz, within 2 dB 6.3 kHz~10 kHz, within 3 dB
5. Reproduce S/N ratio 再生SN比	Same as above 同上		Check only	Measure output when leader tape is played back with the unit set for nominal output level, and compare this reading with nominal output level. 基準出力状態で、リーダー・テープを再生したときのノイズ・レベルは基準出力レベルと比べて足下のこと。 S/N (120 μ s): 46 dB or more S/N (70 μ s): 48 dB or more Deference between channels: 4 dB or less

3-3. Monitor System モニター系

Test Mode: STOP (unless otherwise specified 特に指示の無い限り)

MONITOR switch: INPUT

Adjustment Item 調整項目	Preliminary 準備・設定	Input Signal 入力信号	Adjustment Point 調整個所	Measurement Method / Value Adjusted For 测定方法 - 調整値
1. Minimum input level 最小入力レベル	Connection (接続): Fig. 3-7 INPUT cont.: Max.	INPUT (Rear, RCA): 400 Hz/-18 dBV	Check only	OUTPUT (RCA): -10 dBV ± 3 dB
2. Nominal input level	Connection (接続): Fig. 3-7	INPUT (Rear, RCA): 400 Hz/-10 dBV	INPUT cont. L, R	OUTPUT (RCA): -10 dBV
荃準入力レベル			(Nominal position	do not move the INPUT controls. i) つまみを動かさないこと。(規定位置)
3. Meter level メーター・レベル	Same as above 同上	Same as above 同上	METER AMP PCB: R104/R204	VU meter indication: 0 VU
4. MPX FILTER MPX フィルター	Connection (接続): Fig. 3-7 MPX FILTER sw.: ON	INPUT (Rear, RCA): 19 kHz/-10 dBV	L103/L203	OUTPUT (RCA): Minimum output level (Effect: 30 dB or more) 出カレベルが最小になるよう調整 (効果量は 30dB以上のこと)
5. XLR output level XLR出力レベル (122MK III only)	Connection (接続): Fig. 3-7 INPUT sw.: BAL	INPUT (Rear, XLR): 400 Hz/+4 dBm	Check only	OUTPUT (XLR): +4 dBm ± 1 dB at 100 k Ω load (+2.5 dBm ± 1 dB at 600 Ω load)
6. Front input FRONT 入力	Connection (接続): Fig. 3-7	INPUT (Front, 1/4"): 400 Hz/-10 dBV	Check only	OUTPUT (RCA): -10 dBV ± 2 dB
7. PHONES output level PHONES出力レベル	Connection (接続): Fig. 3-8 PHONES cont.: Max.	INPUT (Rear, RCA): 400 Hz/-10 dBV	Check only	PHONES OUT: 100 mW or more (8Ω load) 100mW以上 (8Ω負荷)
8. Monitor S/N モニターS/N	Connection (接続): Fig. 3-7	No signal 無信号	Check only	OUTPUT (RCA, XLR): 60 dB or more (DIN AUDIO) 60dB以上 (DIN AUDIO)
9. Monitor frequency response モニター周波数特性	Same as above 同上	INPUT (Rear, RCA): 20 ~20 kHz/-10 dBV		OUTFUT (RCA, XLR): Specs (規格): Fig. 3-2
10. internal osc. 内部発振器 (122MK III only)	Connection (接続): Fig. 3-5 With REC/PLAY mode, press ADJUST key, then press OSC key. REC/PLAY状態で、ADJUSTキ	No siganal 無笛号	R34	While alternating the oscillator signal between 10 kHz and 400 Hz by pressing the 10 kHz sw. on and off, adjust for same output level at TP7. 10 kHzスイッチをON/OFFし、TP7の出力レベルが同じになるように調整する。
	ーをONにし、そしてOSCキーを ONにする。			Set the oscillator to 400 Hz (10 kHz sw. off) and adjust for -28 dBV at TP7. 10 kHzスイッチをOFFにし、TP7の出力レベルが -28dBVになるように調整する。

3-4. Recording System 録音系

Test Mode: REC/PLAY (unless otherwise specified 特に指示の無い限り)

MONITOR switch: AUTO

Adjustment Item 調整項目	Preliminary 準備 - 設定	Input Signal 入力信号	Adjustment Point 調整個所	Measurement Method / Value Adjusted For 测定方法 • 調整値
1. Bias OSC frequency バイアス発振周波数	112RMK II: Connection (接続): Fig. 3-9 Test tape: MTT-5571 Mode: FWD REC/PAUSE & REV REC/PAUSE		L3 (for FWD) L207 (for REV)	Connector P8 pin4: 100 ± 0.1 kHz
·	122MK II, 112MK II: Connection (接続): Fig. 3-9 Test tape: MTT-5571 Mode: REC/PAUSE		L3	122MK III: Connector P8 pin4: 150 ± 0.1 kHz 112MK II: Connector P8 pin4: 100 ± 0.1 kHz
2. HX PRO coil HXプロ コイル	Connection (接続): Fig. 3-5 Test tape: MTT-5571 Mode: REC/PAUSE		L102/L202	TP1/TP2: Max. DC voltage DC電圧最大
3. Rec azimuth, Temporary bias	Connection (接続): Fig. 3-10	INPUT (Rear, RCA): 10 kHz/-36 dBV	R161/R261	OUTPUT (RCA): Max. output level 出力レベル最大
録音アジマス、仮バ イアス (122MK III only)	Test tape: MTT-5512 (NORMAL)		REC azimuth adj. screw (Fig. 2-4)	OUTPUT (RCA): Phase between Lch/Rch:0° LchとRchの位相が同じになるように調整
4. Bias set-1 バイアス・セット-1	Connection (接続): Fig. 3-7 Test tape: MTT-5512 (NORMAL)	INPUT (Rear, RCA): 400 Hz, -10 kHz/ -36 dBV	R161/R261	OUTPUT (RCA): Same output level at 400 Hz and 10 kHz. 400Hzと10kHzの出力レベルが同じになるよう に調整
5. Rec level-1 録音レベル-1	Same as above 同上	INPUT (Rear, RCA): 400 Hz/-14 dBV	R302/R402	OUTPUT (RCA): -14 dBV
6. Bias set-2 バイアス・セット-2	Connection (接続): Fig. 3-7 Test tape: MTT-5562 (CrO2)	INPUT (Rear, RCA): 400 Hz, 10 kHz/ -36 dBV	R11	OUTPUT (RCA): Same output level at 400 Hz and 10 kHz. 400Hzと10kHzの出力レベルが同じになるよう に調整
	Connection (接続): Fig. 3-7 Test tape: MTT-5571 (METAL)	Same as above 同上	R12	Same as above 同上
7. Rec level-2 録音レベル-2	Connection (接続): Fig. 3-7 Test tape: Same item 6.	INPUT (Rear, RCA): 400 Hz/-14 dBV	Check only	OUTPUT (RCA): -14 dBV ± 2 dB
8. Total harmonic distortion 総合歪率	Connection (接続): Fig. 3-7 Test tape: Same item 3 and 6.	Same as above 同上	Check only	OUTPUT (RCA): 122MK II, 112RMK II: 2.0 % or less for all tapes. 112MK II: 2.5 % or less for all tape. 各テープで2.0 %以下(112MK II は、2.5 %以下)

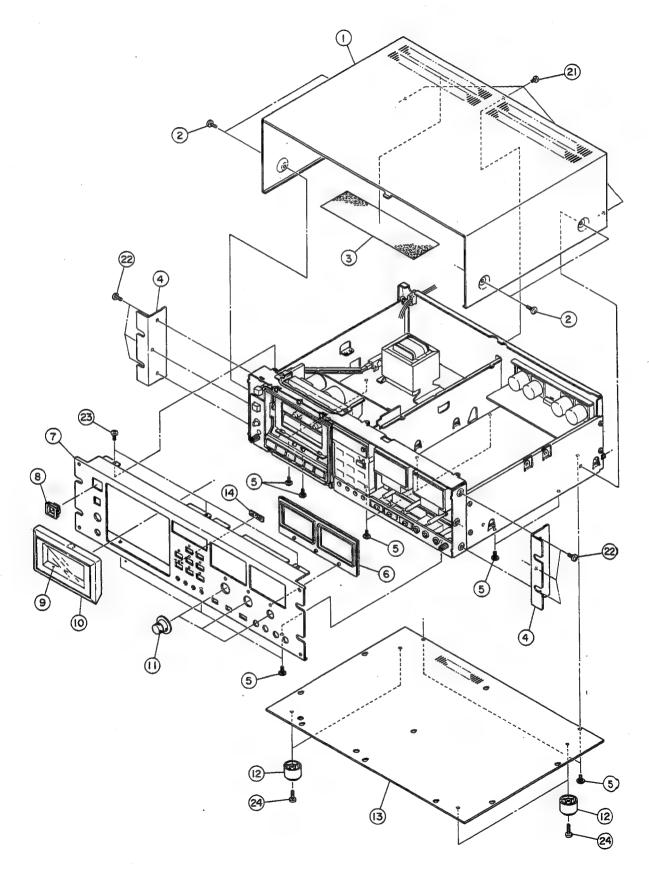
122MKⅢ/112RMKⅡ/112MKⅡ

Adjustment Item 調整項目	Preliminary 準備・設定	Input Signal 入力信号	Adjustment Point 調整個所	Measurement Method / Value Adjusted For 測定方法・調整値		
9. Overall frequency response 総合周波数特性	Connection (接続): Fig. 3-7 DOLBY NR: OUT and IN	INPUT (Rear, RCA): 63 Hz ~ 16 kHz/ -36 dBV	Check only	OUTPUT (RCA): Specs (規格): Fig. 3-3		
10. Level difference between channels チャネル間レベル差	1	INPUT (Rear, RCA): 63 Hz ~ 10 kHz/ -36 dBV	Check only	OUTPUT (RCA): 63 Hz ~ 6.3 kHz: within 3 dB 6.3 ~ 10 kHz: within 4 dB		
11. Rec/repro level fluctuation 録再レベル変動	Same as above 同上	INPUT (Rear, RCA): 63 Hz ~ 14 kHz/ -36 dBV	Check only	OUTPUT (RCA): 400 Hz: within 1 dB 63 Hz ~ 6.3 kHz: within 2 dB 6.3 ~ 14 kHz: 3 dB		
12. Track crosstalk トラック間クロス トーク	Same as above 同上	INPUT (Rear, RCA): Lch: no signal Rch: 125 Hz/-10 dBV	Check only	OUTPUT (RCA): 40 dB or more		
	Record a 125 Hz signal on Rch and note output level. Then invert tape and play Rch track. Check leakage level against the output reference of previously recorded portion. Rchに 125Hzの信号を録音し、その再生出力を基準レベルとする。 次にテープを反転し、再生したときのRchの出力レベルとの比を測定する。					
13. Channel separation チャネル・セパレー	Connection (接続): Fig. 3-7 1 kHz B.P.F. connect 1 kHz B.P.F. 接続	INPUT (Rear, RCA): Lch:1 kHz/-10 dBV Rch:no signal	Check only	OUTPUT (RCA): 30 dB or more		
ション	Find the difference between the 1 kHz recorded portion (Lch) and the "no signal" recorded portion (Rch). 1kHz 録音部分 (Lch) と無信号録音部分 (Rch) との再生出力レベルの比を測定する。					
14. Erasure 消去率	Same as above 同上	INPUT (Rear, RCA): 1 kHz/0 dBV	Check only	OUTPUT (RCA): 65 dB or more		
	Record a 1 kHz signal and rew signal and find the difference lkHzの信号を録音後、テープを巻	between the 1 kHz po	rtion and the "no	n. Erase the recorded portion with no input o signal" portion. との比を測定する。		
15. Overall S/N 総合S/N	Connection (接続): Fig. 3-7 Test tape: Same item 8.	No signal 無信号		OUTPUT (RCA): MTT-5512 (NORMAL): 45 dB or more MTT-5562 (CrO2): 47 dB or more MTT-5571 (METAL): 47 dB or more Reference level 基準レベル: -10 dBV		
16. Bias leak a ge バイアス洩れ	1	No signal 無信号		OUTPUT (RCA): Minimum bias leakage バイアス洩れ最小 Specs (規格): -40 dBV or less		

4. EXPLODED VIEWS AND PARTS LISTS

分解図とパーツリスト

EXPLODED VIEW-1



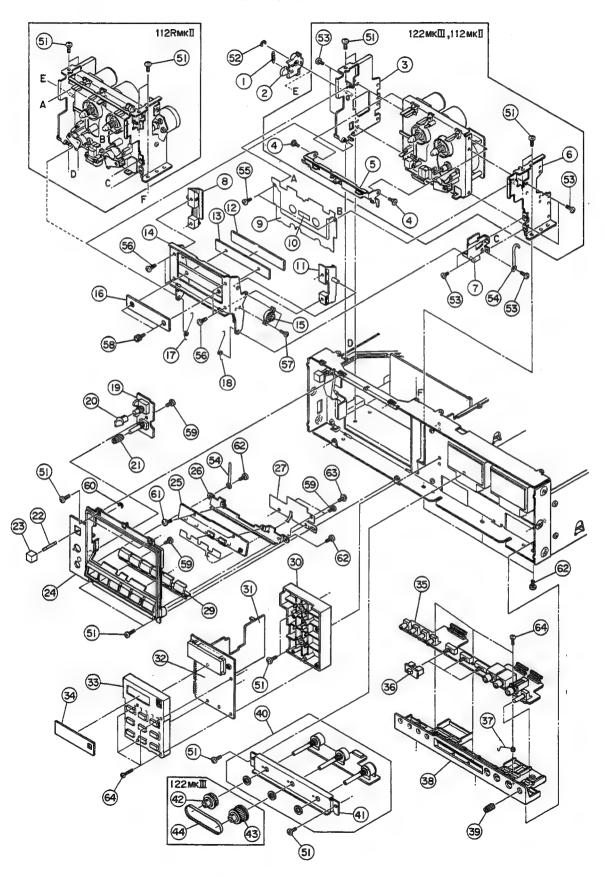
EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS	
1-1	*5801350900	BONNET (B)		
I – 2	*5800612400	SCREW, BONNET M3X8(BLK)		
1-3	*5801499600	FILTER, BONNET [C]		
1- 4	5801348701	ANGLE		
1-5	*5801566100	SCREW, STEP S-TITE 3X6	1	
I - 6	*5801568500	ESCUTCHEON, METER		
1-7	*5801568000	PANEL, FRONT [112RMK2]		
	*5801568100			
	*5801568200	PANEL, FRONT [112MK2]		
I - 8	*5801486600	ESCUTCHEON, D P-N15-A		
I - 9	5801501800	WINDOW, CASSETTE		
1-10	5801500700	LID, CASSETTE		
1-11	5801349300	KNOB		
1-12	5504676000	FOOT		
1-13	*5801342500	PLATE, BOTTOM		
i -14	5801568400	LENS [112RMK2]		
	W		·	•
1-21	*5783773006			
-22	*5783534008			
1-23	*5730017600	SCREW, BIND BR-TITE M3X6		
1-24	*5783034020	SCREW, BIND S-TITE M4X20		

INCLUDED ACCESSORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS	
	*5700140501	OWNER'S MANUAL(J) [J]		
	*5700140600	OWNER'S MANUAL (F\$G) [C,E]		
	*5700140701	OWNER'S MANUAL(E) [EXCEPT J]		
	*5780315015	SCREW, OVAL COUN. M5X15(N1)		
	*5801512200	WASHER, 5X12X3		
	*5785225000	WASHER, FIBER 5X10X0.5T(BLK)		
1101-11 0	A [E]·EIDODE	TINKI-II K [C]-CANADA [1]-IAPAN		
US1:U.S.		[UK]:U.K. [C]:CANADA [J]:JAPAN	1.	

EXPLODED VIEW-2

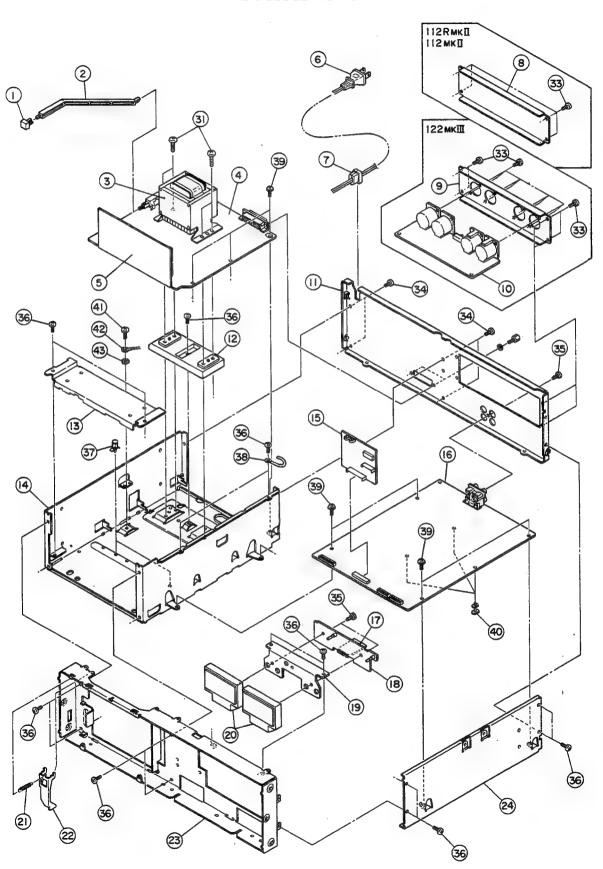


EXPLODED VIEW-2

EF.NO.	PARTS NO.	DESCRIPTION	REMARKS
ī	*5801511300	SPRING, LOCK ARM	
- 2	*5801501500		
2-3		SIDE CHASSIS(L) ASSY	
- 4	*5801511200		
- 5	*5801501900	ARM, SWITCH	
- 6	*5801502400	CHASSIS(R),SIDE	
2- 7		SUB SIDE HOLDER ASSY	
2-8	*5801344601		
2-9 2-10	5225025500	PANEL, CASSETTE LED, SLF601C(ORG)	
-11	*5801344701	HOLDER(R)	
2-12	*5801503000		}
2-13	****	SPACER	
- 4		HOLDER ASSY, CASSETTE	
2-15	*5800620500	DAMPER	
-16	5801503700	PANEL, TRIM	
2-17	*5801515800	SPRING(L), HOLDER	
2-18		SPRING(R), HOLDER	
-19		P.CONT PCB ASSY [112RMK2]	Refer to pages 40 & 45
	*5200362110	P.CONT PCB ASSY [122MK3]	Refer to pages 40 & 45
	*5200362120		Refer to pages 40 & 45
-20	5801412800		
-21 -22	5801503600 *5800472201		1
- 23	5801503800	ROD, EJECT BUTTON, EJECT P-N15-A	
2-24	*5801502500	LID, ESCUTCHEON	
2-25		OP SW PCB ASSY	Refer to pages 42 & 46
-26	*5801500500		Teles to pages 42 G 40
-27	*5801598400	SHEET, PROTECTION	
-28	Vacant	•	
- 29	5801502600	BUTTON(I), OPERATION	
2-30		HOLDER, COUNTER PCB	
2-31	*5200362800	JOINT C PCB ASSY	Refer to pages 38 & 45
- 32	**	COUNTER PCB ASSY [112RMK2]	Refer to pages 38 & 44
	*5200362710	COUNTER PCB ASSY [122MK3]	Refer to pages 38 & 44
		COUNTER PCB ASSY [112MK2]	Refer to pages 38 & 44
!-33		BUTTON, OPERATION [112RMK2]	
-34	5801567800		ļ
! - 34 ! - 35	5801568300 *5200361500	MINDOM	0.4
-39		JACK PCB ASSY [112RMK2]	Refer to pages 39 & 45
	*5200361510	JACK PCB ASSY [122MK3]	Refer to pages 39 & 45
76		JACK PCB ASSY [112MK2]	Refer to pages 39 & 45
! - 36		KNOB, SLIDE	
-37 -38	*5801567400	SPRING, EARTH HOLDER, JACK PCB	
- 39	5801583600		
- 40	**		D-f to 20 8 45
-40		VR PCB ASSY [122MK3,112RMK2] VR PCB ASSY [112MK2]	Refer to pages 39 & 45
-41		HOLDER, R VOL	Refer to pages 39 & 45
42		GEAR B [122MK3]	
. - 43	*5800933000	GEAR A ASSY [122MK3]	
-	3		1

(Continued on page 26)

EXPLODED VIEW-3

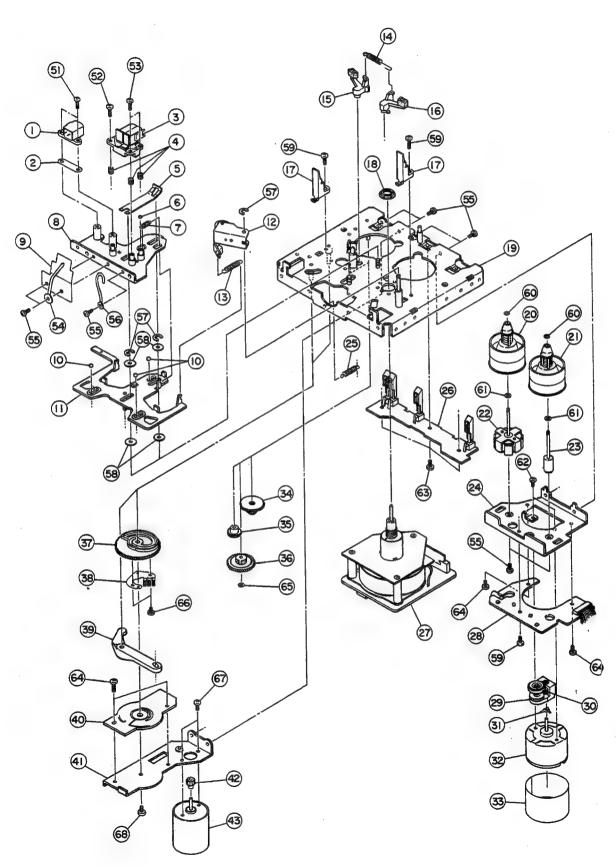


122MKⅢ/112RMKⅡ/112MKⅡ

EXPLODED VIEW-3

REF.NO. PARTS NO.	DESCRIPTION	REMARKS
3- 1 167882280 3- 2 *580150040 3- 3 \(\Delta \) 532006440 3- 4 *520036170 *520036174	O ROD,JOÍNT O TRANS.,POWER O CONT M PCB ASSY [ZRMK2],US,C]	Refer to pages 37 & 44 Refer to pages 37 & 44
*520036180 *520036184 *520036190 *520036194 *520036200	O CONT M PCB ASSY [122MK3 E,UK,A] O CONT M PCB ASSY [112MK2 J,US,C] O CONT M PCB ASSY [112MK2 E,UK,A]	Refer to pages 37 & 44 Refer to pages 41 & 46
, * 520036202	O CORD, AC MP-220 [J]	Refer to pages 41 & 46 Refer to pages 41 & 46
	BUSHING, 2271 [EXCEPT C]	
3-8 *580153770 3-9 *580153790 3-10 *520036300 3-11 *580153750 3-12 *580134950	D PANEL,XLR C [122MK3] D BAL AMP PCB ASSY [122MK3] D PANEL A, REAR	Refer to pages 41 & 46
3-13 *580150210 3-14 *520036260 *520036261 3-16 *520036130	CHASŚIS, MAIN METER AMP PCB ASSY [2RMK2, 2MK2] METER AMP PCB ASSY [22MK3]	Refer to pages 40 & 45 Refer to pages 40 & 45 Refer to pages 33 & 43
*520036131 *520036132 3-17 *520036250 3-18 *520036240 3-19 *580156730	O MAIN PCB ASSY [112MK2] O JOINT M PCB ASSY O METER PCB ASSY	Refer to pages 33 & 43 Refer to pages 35 & 43 Refer to pages 40 & 46 Refer to pages 41 & 46
3-20 529600610 3-21 *580151140 3-22 *580150160 3-23 *580156720 3-24 *580149940	O SPRING,EJECT ARM O ARM,EJECT O CHASSIS,FRONT	
3-31 *578303402 3-32 Vacan† 3-33 *5783613000 3-34 *5783773000 3-35 *5783543000	SCREW,B. C-TITE M3X8(BLK NI) SCREW,BIND B-TITE M3X6(BLK ZN)	
3-38 * *5786713400	O SPACER, PUSH PS-7 A=11.11 O CLIP, HARNESS 3.2X6.0X47 B SCREW, PAN CAP S-TITE M3X8	
3- 42 * 5786700600	SCREW, BIND S-TITE M4X6 [C] EARTH RAG, B-6 4.2 WASHER, LOCK 4.0(OUTER) [C]	

EXPLODED VIEW-4 (122MKIII)



EXPLODED VIEW-4 [122MKIII]

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
4-	5378906900	HEAD, ERASE LEISA	
4- 2	*5801357800	SPACER,EH 0.05	
	*5800556200	SPACER, EH O. !	
	*5801197800		
4-3	5801585400	R/P HEAD ASSY	
4- 4	*5800931300	SPRING, HEAD	
4- 5	*5801481400	SPRING. PRESSURE	
4- 6	5540055000		
4- 7	*5801005700		
4- B	*5801578500	HEAD BASE DD ASSY	
4- 9	*5801597300	SHEET, HEAD SHIELD	
4-10	5540056000		
4-11	*5801475000		
4-12	5800955400		
4-13	*5800955800	SPRING, PINCH ROLLER(R)	·
4-14	*5801475700	SPR I NG, BRAKE	
4-15	5801475300		İ
4-16			
4-17	5801475500		
	*5800117400		
4-18	5730029100	NUT,FLANGE M9X0.75X2.5	
4-19		MECHA. CHASSIS DD ASSY	
4-20	5801578200	REEL TABLE H ASSY	
4-21	5801579500	REEL TABLE HD ASSY	
4-22	5801577700		·
4-23	5801577400	REEL SHAFT BASE ASSY	
4-24	*5801576000	BRACKET, REEL	
4-25	*5801476200	SPRING, BASE ARM	
4-26	*5200363510	SW(E) PCB ASSY	Refer to pages 42 & 46
4-27	5370012100	MOTOR, DC CAPSTAN DD DL-528-001A	
4-28	*5200363310	SENSOR(R) PCB ASSY	Refer to pages 42 & 47
4-29	5801473002	DRIVING PULLY ASSY	
4-30	5801474500	GEAR, REEL MOTOR	
4-31	5801494600	SPRING, THRUST	
4-32	5370002502		l'
4-33	*5800235900	PLATE, SHIELD	
4-34	580 474300	GEAR C	
4-35	5801474101	GEAR A	
4-36	5801474200		
4-37	5801474600		
4-38	580 474700		
4-39	*5801474800	ARM, BASE	
4-40	5210334000		
4-41	*5801474000	BRACKET, MOTOR	
4-42	5801474400	GEAR, MOTOR	
4-43	5370010300	MOTOR, DC MXN-13FB12F	
ユーマン	2270010200	TOTOTS DO TIME TOTOTAL	

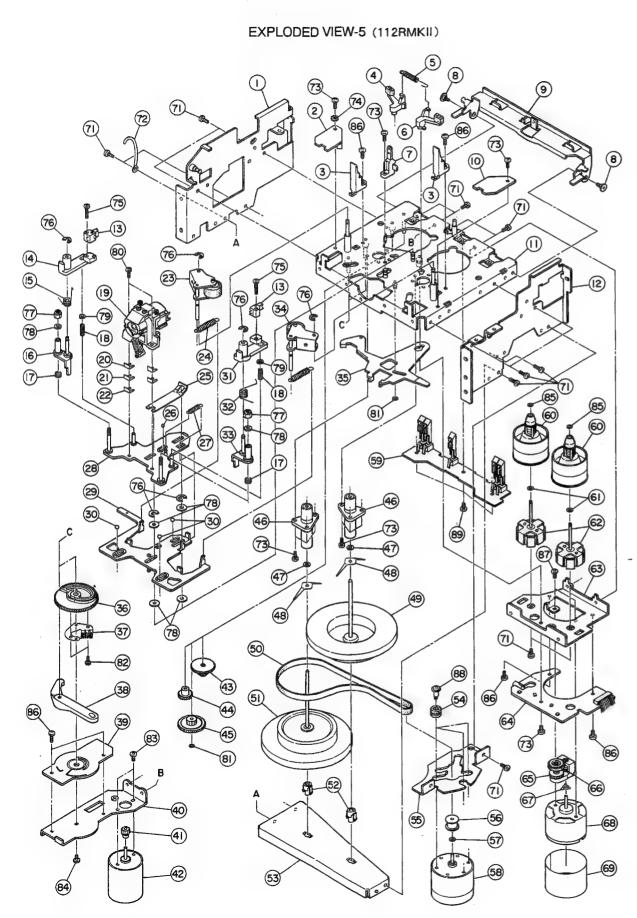
Parts marked with * require longer delivery time.

EXPLODED VIEW-4 [122MKIII]

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
4-51	*5780012006	SCREW.BIND M2X6(NI)	
4-52	*5730029400	SCREW.PWA2*8FN1	
4-53	*5780012008	SCREW.BIND M2X8(NI)	
4-54	*5786713300	CLIP.HARNESS 3.2X9.1X29.3	
4-55	*5783002605		
4-56	*5786713400	CLIP.HARNESS 3.2X6.0X47	
4-57	*5786002000	E-RING.E-2	
4-58	*5785313000	WASHER.POLYS. 3X6X0.5T	
4-59	*5783032606		
4-60	*5785331200	WASHER, POLYS. 1.2X3.0X0.5T(CUT)	
4 - 61	*5800539800	WASHER.TEFLON 1.7X4X0.3T	
4-62	*5780002603	SCREW, BIND M2.6X3	
4-63	*5783032004	SCREW. BIND S-TITE M2X4	
4-64	*5783032605	SCREW, BIND S-TITE M2.6X5	
4-65	*5785331500	WASHER, POLYS. 1.5X4X0.5T(CUT)	
4-66	*5781112004	SCREW.BIND TAPP. #2 M2X4	
4-67	*5780003003	SCREW.BIND M3X3	1
4-68	*5780002004	SCREW.BIND M2X4	

EXPLODED VIEW-2 (Continued from page 21)

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2-51	*5730017600	SCREW.BIND BR-TITE M3X6	
2-52	*5786003000		
2-53	*5783002605		
2-54	*5786713400		
2-55	*5783830104		•
2-56	*5781162606	SCREW.BIND TAPP. #2 M2.6X6(BLK NI)	
2-57	*5783032004	SCREW, BIND S-TITE M2X4	
2-58	5781713003		
2-59	*5783602608		
2-60	*5786002500	E-R1NG, E-2.5	·
2-61	*5780003004	SCREW, BIND HEAD M3X4	
2-62	*5783543008	SCREW, BIND P-TITE M3X8(BLK NI)	
2-63	*5780053005	SCREW, BIND SEMS-F M3X5	
2-64	*5783640208	SCREW, PAN P-TITE 2X8	



EXPLODED VIEW-5 [112RMKII]

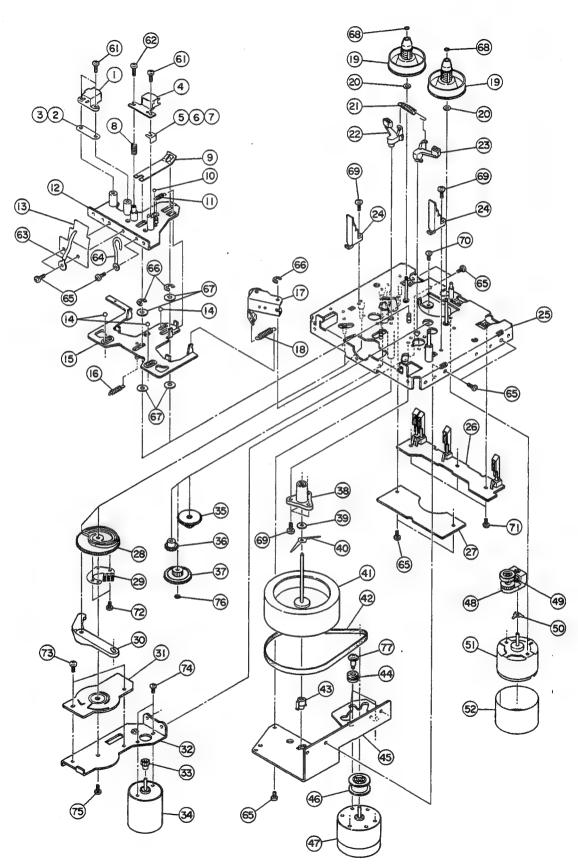
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
5- I 5- 2 5- 3 5- 4 5- 5	*5200363200 *5800117400	SIDE CHASSIS(L) ASSY SW(R) PCB ASSY GUIDE, CASSETTE BRAKE ARM(L) ASSY SPRING, BRAKE	Refer to pages 42 & 47
5- 6 5- 7 5- 8 5- 9 5-10	5228009900	BRAKE ARM(R) ASSY PHOTO SENSOR,59027-4 SCREW,STEP ARM,SWITCH JOINT(R) PCB	Refer to page 42
5-11 5-12 5-13 5-14 5-15	5378906500 *5801343400	MECHA CHASSIS R ASSY CHASSIS(R),SIDE HEAD,ERASE BASE(L),EH SPRING L,ERASE HEAD ARM	·
5-16 5-17 5-18 5-19 5-20	*5800615300 *5800615700 5801583900	ERASE HEAD ARM L SUB ASSY SPRING, ERASE HEAD HEIGHT SPRING, ERASE HEAD ARM GUIDE R/P HEAD ASSY H SPACER, R/P HEAD 0.05	
5-21 5-22 5-23 5-24 5-25	5801577300 *5801576900	SPACER, A 0.1MM SPACER, B 0.2MM PINCH ARM L ASSY SPRING, PINCH ARM SPRING, PRESSURE	
5-26 5-27 5-28 5-29 5-30	*5801005700 *5800618101 *5801475000	STEEL BALL,2.0 SPRING,HEAD BASE HEAD BASE ASSY SLIDER ASSY STEEL BALL,3.0	
5-31 5-32 5-33 5-34 5-35	*5800618800 5801577200	BASE(R),EH SPRING R,ERASE HEAD ARM ERASE HEAD ARM R SUB ASSY PINCH ARM R ASSY DIRECTION LEVER ASSY	
5-36 5-37 5-38 5-39 5-40	*5801474700	CAM, CONTROL PLATE, CONTACT ARM, BASE CAM PCB BRACKET, MOTOR	
5-41 5-42 5-43 5-44 5-45	5801474400 5370010300 5801474300 5801474101 5801474200	MOTOR, DC MXN-13FB12F GEAR C	£ .
5-46 5-47 5-48 5-49 5-50	5800732100 *5800729400 5801197900 5800732300 5534810000	HOLDER ASSY, METAL WASHER(A), TEFLON SPRING(U), THRUST CAPSTAN ASSY(R) BELT, CAPSTAN	
5 - 53 5 - 54	*5801198100	CAPSTAN ASSY(L) SUPPORT(F),THRUST PLATE,FW SUPPORT CUSHION,MOTOR BRACKET,CAPSTAN MOTOR	

122MKⅢ/112RMKⅡ/112MKⅡ

EXPLODED VIEW-5 [112RMKII]

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
5-56	5801006500	PULLEY.CM	
5-57	5801008000		
5-58		MOTOR, CAPSTAN DC EG-530KD-2F	
5-59		SW(E) PCB ASSY	Refer to pages 42 & 46
5-60	5801578200		reter to pages 42 & 40
5 - 61		WASHER, TEFLON 1.7X4X0.3T	
5-62		COIL SHAFT ASSY H	
		BRACKET, REEL	
5 - 64		SENSOR(R) PCB ASSY	Perfor to 2000 40 8 47
5 - 65			Refer to pages 42 & 47
2 ** 02	5801475002	DRIVING PULLEY ASSY	
5-66		GEAR, REEL MOTOR	
5-67	5801494600	SPRING, THRUST	
568	5370002502	MOTOR, DC REEL	
5-69	*5800235900	PLATE, SHIELD	
5-71	*5783002605	SCREW, PAN S-TITE M2.6X5	
5 - 72		CLIP, HARNESS 3.2X6.0X47	
5 73	* 5783032606	SCREW, BIND S-TITE M2.6X6	
5-74	*5785122600	WASHER, LOCK 2.6	
5-75		SCREWR, BIND M2X8(NI)	
5-76	*5786002000	E-RING.E-2	
5-77	*5781952600	NUT, NYLON M2.6	1
5-78		WASHER, POLYS. 3X6X0.5T	
5 - 79		WASHER, POLYS. 2.1X5X025T	
5 - 80		SCREW, BIND M2X6	
5-81	*5785331500	WASHER, POLYS. 1.5X4X0.5T(CUT)	
5-82		SCREW, BIND TAPP. #2 M2X4	
5 - 83	*5780003003		
5-84	*5780002004		
5-85	*5785331200	WASHER, POLYS. I.2X3.0X0.5T(CUT)	
5-86	*5783032605		
5 - 87	*5780002603	SCREW, BIND M2.6X3	
5-88	5730033100	SCREW, SHOLDEK M2.6X5-2	
5-89	*5783032004		

EXPLODED VIEW-6 (112MKII)



EXPLODED VIEW-6 [112MKII]

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
6- 1 6- 2 6- 3	5378906900 *5801197800 *5801357800 *5800556200 5378907100	HEAD, ERASE LE15A SPACER, EH 0.2 SPACER, EH 0.05 SPACER, EH 0.1 HEAD, R/P SS15R	
6- 5 6- 6 6- 7 6- 8 6- 9	5801357700 5800595000 5800595100 *5800931300 *5801481400	SPACER,R/P HEAD 0.05 SPACER,A 0.1MM SPACER,B 0.2MM SPRING,HEAD SPRING,PRESSURE	
6-10 6-11 6-12 6-13 6-14	5540055000 *5801005700 *5801472400 *5801597300 5540056000	STEEL BALL.2.0 SPRING, HEAD BASE HEAD BASE(4) ASSY SHEET, HEAD SHIELD STEEL BALL,3.0	
6-15 6-16 6-17 6-18 6-19	*5801475000 *5801476200 5800955400 *5800955800 5801480700	SLIDER ASSY SPRING, BASE ARM PINCH ROLLER ARM ASSY(R) SPRING, PINCH ROLLER(R) REEL TABLE S ASSY	
6-20 6-21 6-22 6-23 6-24	5800539800 *5801475700 5801475300 5801475500 *5800117400	WASHER, TEFLON 1.7X4X0.3T SPRING, BRAKE BRAKE ARM(L) ASSY BRAKE ARM(R) ASSY GUIDE, CASSETTE	
6-25 6-26 6-27 6-28 6-29	*5200333900 *5200343210 5801474600 5801474700	MECHA. CHASSIS S4 ASSY SW PCB ASSY SENSOR PCB ASSY CAM, CONTROL PLATE, CONTACT	Refer to pages 42 & 47 Refer to pages 42 & 47
6-30 6-31 6-32 6-33 6-34	*5801474800 5210334000 *5801474000 5801474400 5370010300	ARM, BASE CAM PCB BRACKET, MOTOR GEAR, MOTOR MOTOR, DC MXN-13FB12F	
6 - 35 6 - 36 6 - 37 6 - 38 6 - 39	5801474300 5801474101 5801474200 5800106200 5800729400	GEAR C GEAR A GEAR B HOLDER ASSY, METAL WASHER(A), TEFLON	-
6-40 6-41 6-42 6-43 6-44	5801197900 5800735101 5800735500 5801198100 5534537001	SPRING, THRUST (U) CAPSTAN ASSY BELT, CAPSTAN SUPPRT(F), THRUST CUSHION, MOTOR	
6-45 6-46 6-47 6-48 6-49	*5801198001 5801584000 5370008700 5801473002 5801474500	PLATE(P), FW SUPPORT PULLY, CAPSTAN 8.35 MOTOR, CAPSTAN DC EG-530KD-2B DRIVING PULLY ASSY GEAR, REEL MOTOR	
6 - 50 6 - 51 6 - 52	5801494600 5370002502 *5800235900	SPRING, THRUST MOTOR, CC REEL PLATE, SHIELD	

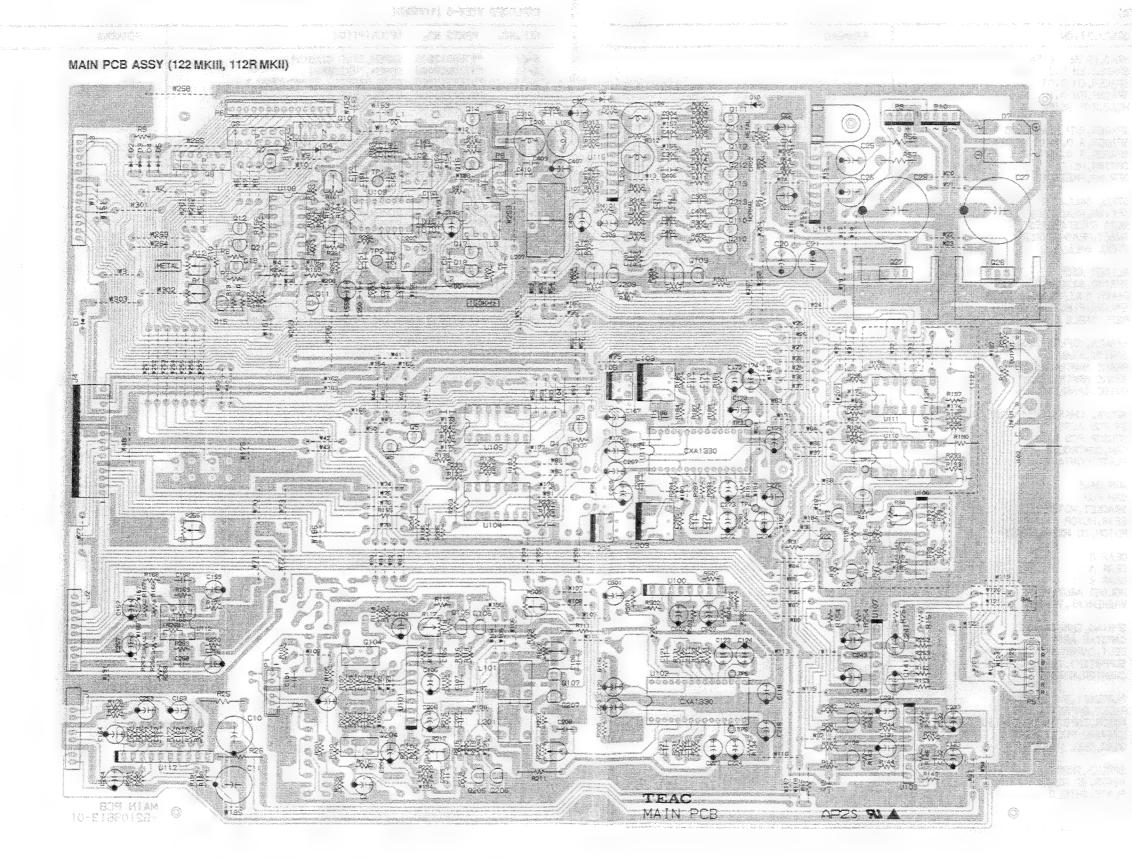
Parts marked with * require longer delivery time.

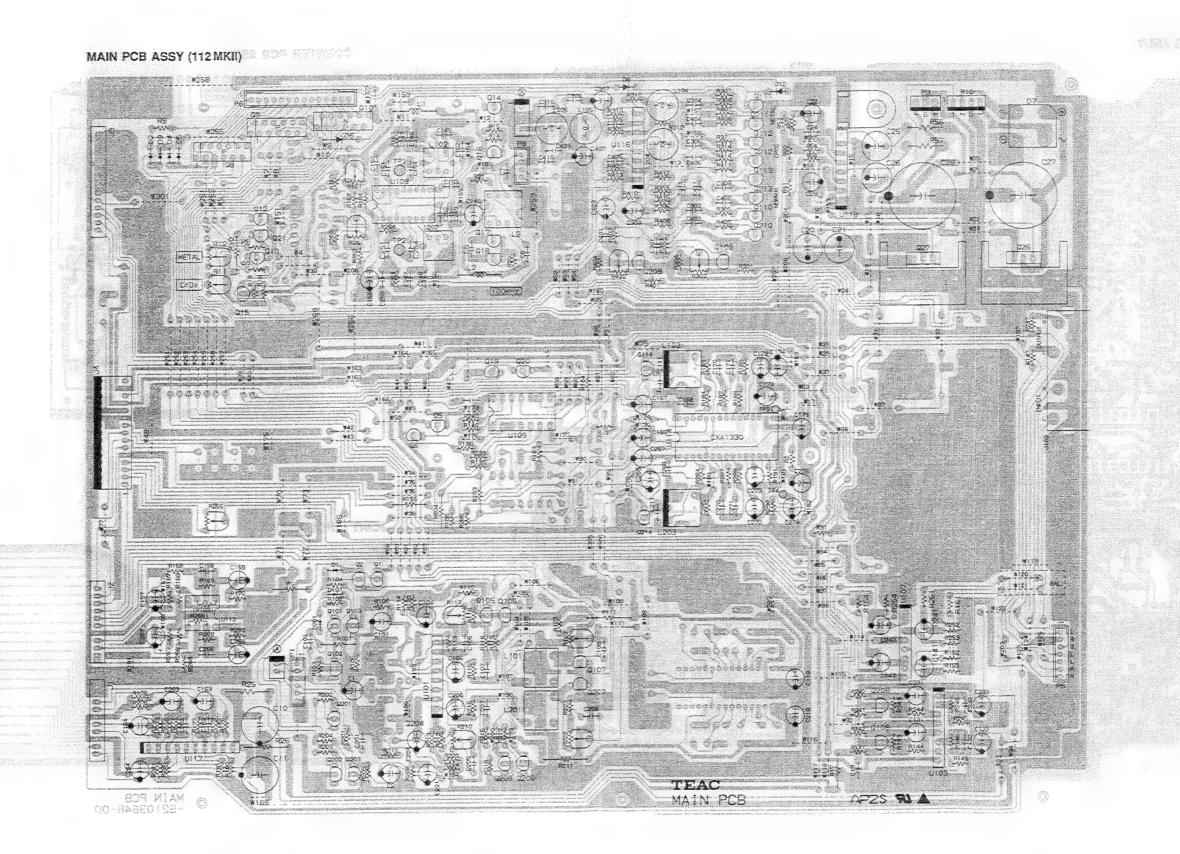
EXPLODED VIEW-6 [112MKII]

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
6-6! 6-62 6-63 6-64 6-65	*5780012006 *5730029400 *5786713300 *5786713400 *5783002605	SCREW,PWA2*8FNI CLIP,HARNESS 3.2X9.1X29.3 CLIP,HARNESS 3.2X6.0X47	
6-66 6-67 6-68 6-69 6-70	*5786002000 *5785313000 *5785331200 *5783032606 *5780002603	E-RING,E-2 WASHER,POLYS. 3X6X0.5T WASHER,POLYS. 1.2X3.0X0.5T(CUT) SCREW,BIND S-TITE M2.6X6 SCREW,BIND M2.6X3	
6-71 6-72 6-73 6-74 6-75	*5783032004 *5781112004 *5783032605 *5780003003 *5780002004	SCREW, BIND TAPP. #2 M2X4	-
6 - 76 6 - 77	*5785331500 5730033100	WASHER, POLYS. 1.5X4X0.5T(CUT) SCREW, SHOLDEK M2.6X5-2	

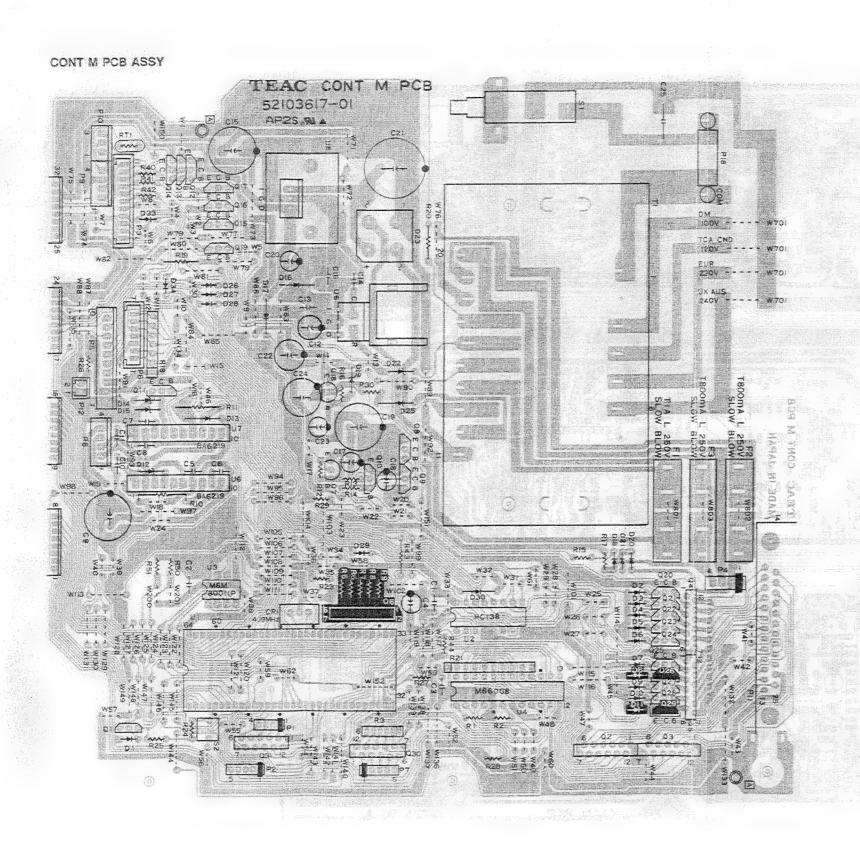
5. PC BOARDS AND PARTS LISTS

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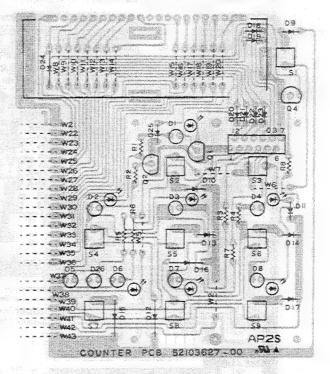




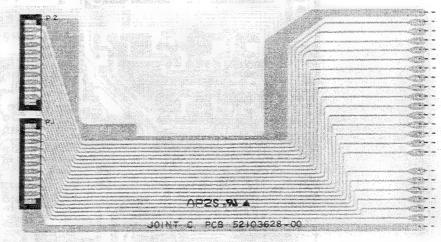
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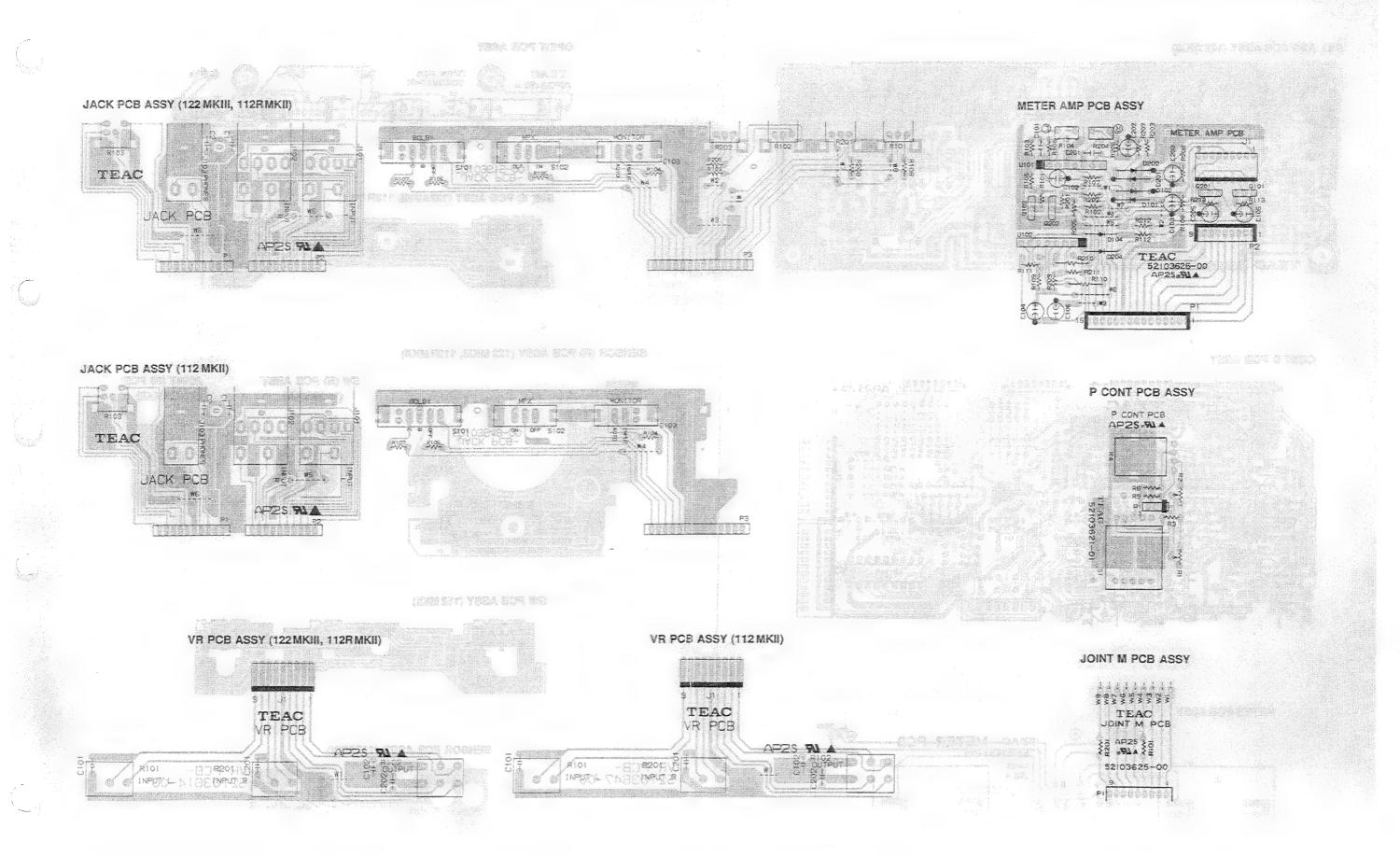


COUNTER PCB ASSY

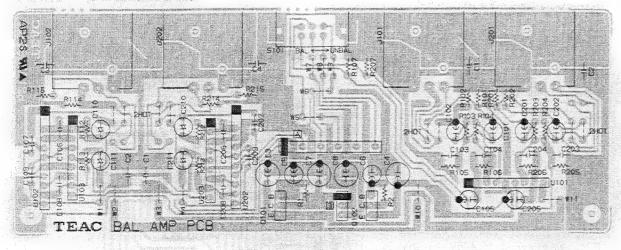


JOINT C PCB ASSY

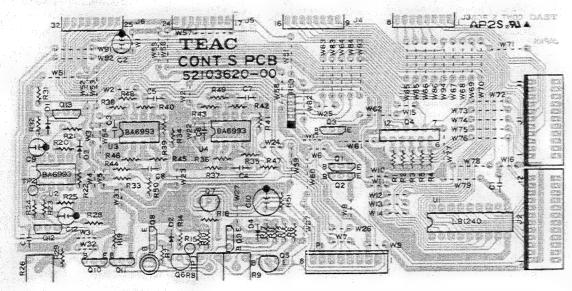




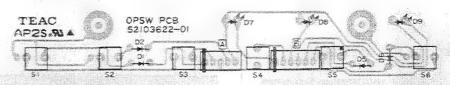
BAL AMP PCB ASSY (122 MKIII)



CONT S PCB ASSY



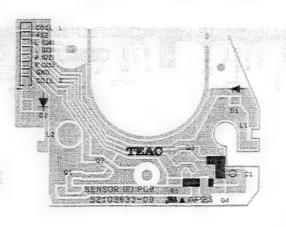
OPSW PCB ASSY

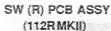


SW(E) PCB ASSY (122 MKIII, 112R MKII)



SENSOR (R) PCB ASSY (122 MKIII, 112R MKII)







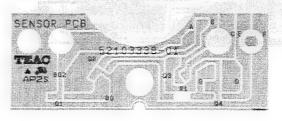
JOINT (R) PCB (112RMKII)



SW PCB ASSY (112 MKII)



SENSOR PCB ASSY (112 MKII)



MAIN PCB ASSY

MAIN PCB ASSY

				71001	
REF.NO.	PARTS NO.	DESCRIPTION	REF.NO.	PARTS NO.	DESCRIPTION
	*5200361300 *5200361310	MAIN PCB ASSY [122MK3]	Q11 Q12-14	5232255720 5232255720	TR., DIGI. DTC124ES [122MK3] TR., DIGI. DTC124ES
	*5200361320	MAIN PCB ASSY [112MK2]	Q15	5230782320	TR., JC501Q
	*5210361302	MAIN PCB [122MK3,112RMK2]	Q16	5230019020	TR., 2SA933SLN
	* 5210364601	MAIN PCB [II2MK2]	Q17,18	5230782320	TR., JC501Q [122MK3.112MK2]
4	*5730039200	WEAT CLAV OCU 2425 CDI		5230780920	TR., 2SC2603F [112RMK2]
	*5555590000		010	507005 1000	
	*5780003008		Q19 Q20	5232254820	TR., DIGI. DTA124ES [112MK2]
DI '	5224015020		021	5232255720 5232255720	TR., DIGI. DTC124ES [112MK2]
		[122MK3,112MK2]	022	5232254920	TR., DIGI. DTC124ES TR., DIGI. DTA144ES [122MK3]
		·	Q23	5232262020	TR., DIGI. DTC144VS [122MK3]
D2-5	5224015020				
D7 <u>A</u>	5228010800		Q24	5232261320	TR., DIGI. DTC314TS [122MK3]
D8 D9	5224015020	DIODE, ISS133T-77	Q26 <u>/</u>	5231762800	TR., 2SD1913R
DIO	5224012920 5224015020		027	5230509700	TR.,2SB1274R
5.0	7224017020	DIODE, 1331331-77	0101,201	5230774400	TR., 2SC-1845E [112MK2]
D101,201	5224015020	DIODE, ISS133T-77 [112MK2]	Q103,203	5230775020	TR.,2SC2878-B [112MK2]
J1,2	5336399400	CONNECTOR, LOR-FJ	Q104,204	5232008600	EET 20V30001
J3	5336399800	CONNECTOR, I4R-FJ	Q.04,204	7272000000	FET.,2SK389BL [122MK3,112RMK2]
J4	5336282500	SOCKET, CON. IL-SDD-15S-S2L2	0105-109	5232261320	TR., DIGI. DTC314TS
J102	5330509500	JACK, PIN 4P YKC21-0062	Q205-209	5232261320	TR., DIGI. DTC314TS
110	F005071000		Q110-113	5232255720	TR., DIGI. DTC124ES
L1,2 L3	5286031000	COIL, CHOKE 220UH LALO4NA			•
	5286038700	COIL,OSC ISOKHZ	Q114,214	5232261320	TR., DIGI. DTC314TS
	5286053700	[122MK3,112MK2] COIL,OSC 100KHZ [112RMK2]	0210-213	E2722EE700	[112MK2]
L101,201	5292813300	FILTER, LOW PASS 22KHZ	Q210-213 R11	5232255720	TR., DIGI. DTC124ES
,		[122MK3, 112MK2]	1 1111	5280020900	R.,TRIMMER 2.2KB [122MK3,112RMK2]
		•	İ		(122MO), [12MM2]
	5292810600	FILTER, LOW PASS 22KHZ		5280021100	
L102,202	5286038500	[112RMK2]	RI2	5280021100	R., TRIMMER 4.7KB
L102,202	2200030300	COIL, STEPUP 150K [122MK3, 112RMK2]		5241273710	R., INCOMB. 22 OHM IW
	5286047600	COIL, STEPUP TOOK [112MK2]	R34 R41	5280021700	R., TRIMMER 47KB [122MK3]
		COLLYCIES TOOK TITZPIKZY	1741	5280020900	R.,TRIMMER 2.2KB [122MK3]
L103,203	5292810000	FILTER, LOW PASS MPX	RI11,211	5183578000	R., INCOMB. 1/4W 100
		[122MK3,112RMK2]	RI 17,217	5280020900	R., TRIMMER 2.2KB
1 104 204	5292805600	FILTER, LOW PASS MPX [112MK2]	RI22, 222	5280021100	R., TRIMMER 4.7KB
L104,204 L105,205	5286040820	COIL, CHOKE 8.2MH VT	R161,261	5280021100	R., TRIMMER 4.7KB
L107,207	5286041420	COIL, CHOKE 27.0MH VT			[122MK3,112RMK2]
L106,206	5286038900	COIL, TRAP 150KHZ		5280020900	P TRIMER COVE CLICKE
·		[122MK3,112RMK2]	R255	5280020900	R.,TRIMMER 2.2KB [2MK2] R.,TRIMMER 2.2KB
L107,207	5286024500	COIL, 270UH [112RMK2]	R302,402	5280021300	R., TRIMMER IOKB
PI	5336249600	PLUG, CONN. BO6B-PH-K-S(WHT)	R506	5280021700	R., TRIMMER, 47KB [112RMK2]
P5	5336249700	PLUG, CONN. BO7B-PH-K-S(WHT)	U100	5220426200	IC.,M51143AL [112RMK2]
P6	5336250400	PLUG, CONN. B14B-PH-K-S(WHT)	11101	E000 114	
P7	5336249400	PLUG, CONN. B04B-PH-K-S(WHT)	U101 U102	5220440600	IC., NJM4565L
		[122MK3.112RMK2]	0102	5220444700	IC.,CXA1330S
P8	5336251400	PLUG, CONN. BO4B-PH-K-R(RED)	U103	5220440600	[122MK3,112RMK2]
			U104	5220041100	IC., NJM4565L IC., DIGI. BU4066B
P9	5336135300	PLUG, CONN. 8263-0312(RED)			[122MK3,112RMK2]
PIO	5336135400	PLUG, CONN. 8263-0412(RED)			
Q1,2 Q3	5232254820	TR., DIGI. DTA124ES [112MK2]	U105	5220041100	IC., DIGI. BU4066B
47	5232254820	TR.,DIGI. DTA124ES [122MK3,112RMK2]	U106	5220440600	IC., NJM4565L [122MK3]
		. 12214O, 1121VENZI	U107 U108	5220440600	IC., NJM4565L
Q4	5232255720	TR., DIGI. DTC124ES	U109	5220041100 5220430400	IC., DIGI. BU4066B [122MK3]
		[122MK3,112RMK2]	0.02	~~~~~JU4UU	IC., UPC1297CA
Q5	5232254820	TR., DIGI. DTA124ES	U110,111	5220041100	IC., DIGI. BU4066B [122MK3]
Q6	5232255720	TR., DIGI. DTC124ES	U114	5220444700	IC., CXA1330S
Q7	5232254820	TR., DIGI. DTA124ES	U116	5220440600	IC., NJM4565L
		[122MK3,112RMK2]	UI 17	5220446000	IC.,LA6515
Q8,9	5232260800	TR., ARRAY DT5A124E	UI 18	5220425800	IC.,M5230LA
Q10	5232260900	TR., ARRAY DT5C124E			

CONT M PCB ASSY

DESCRIPTION REF.NO. PARTS NO. *5200361700 CONT M PCB ASSY [112RMK2/J,US,C] CONT M PCB ASSY *5200361740 [112RMK2/E,UK,A] *5200361800 CONT M PCB ASSY [122MK3/J,US,C] CONT M PCB ASSY *5200361840 [122MK3/E,UK,A] CONT M PCB ASSY *5200361900 [112MK2/J,US,C] *5200361940 CONT M PCB ASSY [||2MK2/E,UK,A] *5210361702 CONT M PCB *5332015800 HOLDER, FUSE [E, UK, A] PLATE A, EARTH HEAT SINK, OSH-2425-SPL *5555590000 *5730039200 *5780003008 SCREW, BIND M3X8 *5800990100 *5783723008 SCREW, BIND B-TITE M3X8 *5800673000 HEAT SINK △ 5267703800 SPARK KILLER, 4700PF400V M OSC., EFO-GC4194A4 C25 CRI 5347017700 D1 - 75224015020 DIODE, 188133T-77 DIODE, ISS133T-77 [112RMK2] DB 5224015020 D9,10 DIODE, ISS133T-77 DIODE, ISS133T-77 5224015020 5224015020 5224574401 DIODE, ZENER RD7.5EL2 FR DIODE, ISR35-200A FT DIODE, ZENER RD3.0FL2 FR DIODE, ZENER RD6.8ELI FR D13 5224016720 DI4 5224571801 DIS 5224574001 DIODE, ISR35-200A FT DIODE, ISS133T-77 5224016720 DI6,17 **DI8** 5224015020 DI9 5224579501 DIODE, ZENER RD33EL2 FR DIODE, ISS133T-77 DIODE, ZENER RD5.1EL2 FR SILICON STACK, SZYBIO 5224015020 D20,21 5224573201 D22 **△** 5228010800 D23 D25 5224016720 DIODE, ISR35-200A FT D26-29 5224015020 DIODE, 188133T-77 DIODE, 182473 DIODE, 188133T-77 D30 5224012920 D33,34 5224015020 ₫ 5041140000 FUSE, MINI IA-250V(T) [E, UK, A] F2,3 **1** 5142185000 FUSE, MINI 630MA/250V(T) [E,UK,A] PLUG,CON. BIIB-PH-K-S(WHT) **P3** 5336250100 P5 5336127000 PLUG, CON. 8263-1012(WHT) PLUG, CON. BO7B-PH-K-S(WHT) P6 5336249700 P8 5336135400 PLUG, CON. 8263-0412(RED) PLUG, CONN. 8263-0412(WHT) Pg 5336126400 PIO 5336126300 PLUG, CONN. 8263-0312(WHT) PH 5334078300 SOCKET, CON. 25P 5336249200 PLUG, CON. BO2B-PH-K-S(WHT)

CONT M PCB ASSY

REF.NO	٥.	PARTS NO.	DESCRIPTION
P18 Q1 Q2,3 Q4,5 Q6		5327007200 5232255720 5232260900 5232261500 5232260900	TERMINAL,2P TR.,DIGI. DTC124ES TR.,ARRAY DT5C124E TR.,ARRAY DT5A143E TR.,ARRAY DT5C124E [122MK3,112RMK2]
Q7 Q8-11 Q12 Q13 Q14		5230012920 5232255720 5232254820 5232255720 5232256820	TR.,2SA1015GR TR.,DIGI. DTC124ES TR.,DIGI. DTA124ES TR.,DIGI. DTC124ES TR.,DIGI. DTB143ES
Q15-17 Q18 Q19 Q20-25 Q26		5232255720 5230012920 5231763000 5232255720 5232255720	TR.,DIGI. DTC124ES TR.,2SA1015GR TR.,2SD1380R TR.,DIGI. DTC124ES TR.,DIGI. DTC124ES [112RMK2]
027,28 029 030,31 R3 R10		5232255720 5232255720 5232260900 5242131200 5241270510	TR., DIGI. DTC124ES TR., DIGI. DTC124ES TR., ARRAY DT5C124E R., ARRAY EXB Z06E103J R., INCOMB. I.O/IW J FF
RII RI8 RI9,20 R21 RTI		5241273310 5242135300 5181978000 5242135400 5228017800	R.,INCOMB. 15/1W J FF R.,ARRAY RMLS6J103 R.,INCOMB. F50 15 OHM J R.,ARRAY RMLS9J103 THERMISTOR,S5D-020 [112RMK2,112MK2]
\$1 \$2 U1 U2 U3	⚠	5300054700 5302110900 5220833100 5220069900 5220829200	SW.,PUSH SDDLD 1-1 SW.,EQV 215 05R MICOM.,UPD75108CW-W63 IC.,DIG!. HD74HC138P IC.,M6M80011P
U4 U5 U6,7 U8	Λ	5220108400 5220430300 5220444900 5220434800	IC.,DIGI. M66008P IC.,L78MR05 IC.,BA6219 IC.,M5F7812L

COUNTER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200362700	COUNTER PCB ASSY [112RMK2]
	* 5200362710	COUNTER PCB ASSY [122/K3]
	*5200362720	COUNTER PCB ASSY [112MK2]
	* 5210362700	COUNTER PCB
	*5801500100	HOLDER, FL 134
	*5801579000	SPACER.LH-5 L=9.3
	* 5801579100	SPACER, LH-5 L=3.3
DI-4	5225018500	LED, SLR-34DU3F
D5,6	5225029300	LED, INDICATOR LD-201MG [112RMK2]

[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA [J]:JAP. [A]:AUSTRALIA

COUNTER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
D7,8	5225018500	LED, SLR-34DU3F [122MK3,112RMK2]
D9-11	5224015020	DIODE, 188133T-77
DI 2	5224012920	DIODE, 182473
DI3,14	5224015020	DIODE, 188133T-77
DI5,16 '	5224012920	DIODE,1S2473 [122MK3,112RMK2]
DI7	5224015020	DIODE, 188133T-77
DID 07	F00.1015000	[122MK3,112RMK2]
DI8-23	5224015020	DIODE, ISS133T-77
D24	5224012920	D10DE, 1S2473
D25	5224015020	DIODE, ISS133T-77
D26	5225018500	LED, SLR-34DU3F [122MK3]
Q1,2	5232255720	TR., DIGI. DTC124ES
Q3	5232260900	TR.,ARRAY DT5C124E
Q4	5232255720	TR., DIGI. DTC124ES
\$1 - 9	5302110900	SW., EQV 215 05R
บเ	5347027800	COUNTER.FL 5-BT-137GK
		•

JOINT C PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
PI P2	*5200362800 *5210362800 5336280100 5336280200	JOINT C PCB ASSY JOINT C PCB PLUG, CONN. IL-SDD-IIP-S2T PLUG, CONN. IL-SDD-I2P-S2T

JACK PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200361500 *5200361510 *5200361520 *5210361501 *5210364801	JACK PCB ASSY [112RMK2] JACK PCB ASSY [112MK3] JACK PCB ASSY [112MK2] JACK PCB [112MK3,112RMK2] JACK PCB [112MK2]
J101,102 J103 P1,2 P3 R101,201	5330017600 5330017700 5336398100 5336398500 5282026500	JACK,FJ316DNNB-Z JACK,SINGLE FJ332DB-Z PLUG,CONN. 10P-FJ PLUG,CONN. 14P-FJ VR.,,10KB ISIUVR [122MK3]
R102,202 R103 S101 S102,103	5282026500 5282420300 5300916700 5300917000	VR.,,IOKB ISIUVR [I22MK3] VR.,,IOKAX2 IS2UVR 09 SW.,SLIDE 2-3 SSSU SW.,SLIDE 2-2

VR PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200361400 *5210361400 *5200361420 *5210364700 5801567500	VR PCB ASSY [2RMK2, 22MK3] VR PCB [2RMK2, 22MK3] VR PCB ASSY [2MK2] VR PCB [2MK2] HOLDER,R VOL
JI RIO1,201 RIO2	5336281900 5282026400 5282411600	SOCKET, CONN. 1L-SDD-9S-S2L2 VR., 20KA ISIUVR 16 VR., 10KAX2 IS2UVR 16

METER AMP PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200362600	METER AMP PCB ASSY [112RMK2,112MK2]
	*5200362610	
	*5210362600	
DIO1,201 DIO2,202 DIO4,204 JI PI	5224015400	
P2 Q101,201 Q102,202	5336279900 5230780920 5232255720	PLUG,CONN. IL-SDD-9P-S2T TR.,2SC2603F TR.,DIGI. DTC!24ES [122MK3]
R104,204	5280036100	
U101,102	5220440600	IC.,NJM4565L

P.CONT POB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200362100	P.CONT PCB ASSY [112RMK2]
	*5210362100	P.CONT PCB [112RMK2]
	*5200362110	P.CONT PCB ASSY [122MK3]
	*5200362120	P.CONT PCB ASSY [112MK2]
	*5210362101	P.CONT PCB
		[122MK3,112RMK2]
RI,2	5280035700	R.,TRIMMER IKB [112RMK2,112MK2]
	5280036100	R., TRIMMER 4.7KB [122MK3]
R4	5282026700	VR., IKB ISTUVR IT [112RMK2, 112MK2]
SI	5282026600 5301207400	VR., 10KB ISIUVR [122MK3] SW., ROTARY 2-2

122MKII/112RMKII/112MKII |

JOINT M PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200362500	JOINT M PCB ASSY
	*5210362500	JOINT M PCB
PI	5336279900	PLUG, CONN. 1L-SDD-9P-S2T

BAL AMP PCB ASSY [122MK3]

REF.NO.	PARTS NO.	DESCRIPTION
	*5200363000	BAL AMP PCB ASSY
	*5210363000	BAL AMP PCB
J101,201	5334042200	SOCKET, CANNON CONN. XLB3-31
J102,202	5334042100	PLUG, CANNON CONN. XLB3-32
Q101	5231763000	TR.,2SDI380 R
0102	5231763600	TR.,2SB1009 R
S101	5300917000	SW., SLIDE 2-2
101	5220439500	IC., UPC4570HA
U102,202	5242127700	R, ARRAY RMNZ8 618
U103,203	5220431100	IC., NJM5532S

CONT S PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION		
	*5200362000 *5200362010 *5200362020 *5210362001	CONT S PCB ASSY [112RMK2] CONT S PCB ASSY [112RMK2] CONT S PCB ASSY [112MK2] CONT S PCB		
DI-3	5224015020	DIODE, ISS133T-77 [112RMK2]		
D4	5224015020	DIODE, ISS133T-77 [122MK3, 112RMK2]		
D5,6	5224015020	DIODE, ISS133T-77 [112RMK2]		
JI	5336282100	SOCKET, CON. IL-SDD-IIS-S2L2		
J2	5336282200	SOCKET, CON. 1L-SDD-12S-S2L2		
J3-6	5336401200	CONNECTOR, TFC-B08Y-E1		
PI	53361 3 7800	PLUG, CONN. 8263-0812(BLK)		
10	5232261700	TR., DIGI. DTB143EV-TV2		
Q2	5232255720	TR., DIGI. DTC124ES		
Q3	5232254820	TR., DIGI. DTA124ES		
04	5232260800	TR., ARRAY DT5A124E		
Q5	5230780920	TR.,2SC2603F [122MK3,112RMK2]		
Q6	5231763000	TR., 2SDI 380R [112RMK2]		
07	5231763000	TR.,2SDI380R		
Q,	3231703000	[122MK3,112RMK2]		
Q8,9	5232255720	TR.,DIGI. DTC124ES		
Q10,11	5232254820	TR.,DIGI. DTA124ES		
Q12	5232008420	FET.,25K381D [112RMK2]		
Q13	5232255720	TR., DIGI. DTC124ES [112RMK2]		
R8	5280041300			
R9	5280041300			

CONT 5 PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
R26	5280042100	R.,TRIMMER 47KB
R53	5242130100	R., ARRAY EXB Z05E472J
UI	5232253300	TR., ARRAY LB1240
U2	5220426300	IC.,BA6993 [112RMK2]
U3	5220426300	IC.,BA6993
U4	5220426300	IC.,BA6993
		[122MK3,112RMK2]

METER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
DI01,201	*5200362400 *5210362400 5800385100 5225013500	METER PCB ASSY METER PCB SPACER, LED LED, SLR-34VR3F(RED)

OP SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200362200	OP SW PCB ASSY
	*5210362201 5801501301	OP SW PCB SPACER.LED L=4.1
DI,2	5224017820	DIODE, MAIGSP-TAS
05.6	5224017820	DIODE, MAIGSP-TAS
		·
D7	5225013600	LED, SLR-34MG3F (GRN)
D8	5225018500	LED, SLR-34DU3F
D9	5225013500	LED, SLR-34VR3F(RED)
\$1.2	5302112100	SW.,EVQ-235
S3-5	5302110900	SW., EQV 215 05R
S6	5302112100	SW.,EVQ-235

SW(E) PCB ASSY [122MK3,112RMK2]

Parts marked with * require longer delivery time.

SW PCB ASSY [112MK2]

REF.NO.	PARTS NO.	DESCRIPTION
	*5200333900 *5210333901	
SI	5301754500	SW. LEAF MTS10161MVJO
S3-5	5301754500	SW., LEAF MTS10161MVJO

SW(R) PCB ASSY [112RMK2]

REF :: NO :	PARTS NO.	DESCRIPTION
SI	*5200363200 *5210363200 5301654100	

SENSOR(R) PCB ASSY [122MK3,112RMK2]

REF.NO.	PARTS NO.	DESCRIPTION
	*5200363300	SENSOR(R) PCB ASSY [112RMK2]
	*5200363310	SENSOR(R) PCB ASSY [122MK3]
	*5210363300	SENSOR(R) PCB
DI	5224017120	DIODE, ISRI39-200 T-31
D2	5224017120	DIODE, ISR139-200 T-31 [112RMK2]
Q1-4	5228017200	PHOTO REF., NJL5161KF1-8

SENSOR PCB ASSY [112MK2]

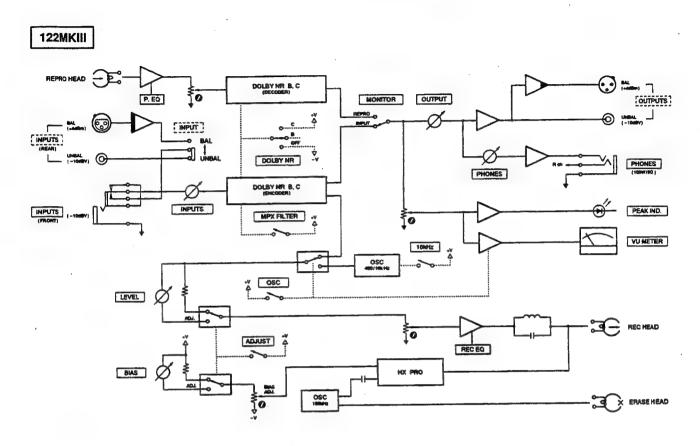
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	*5200343210 *5210333802	SENSOR PCB ASSY SENSOR PCB
Q1,2		PHOTO REF., NJL5161KF1-B

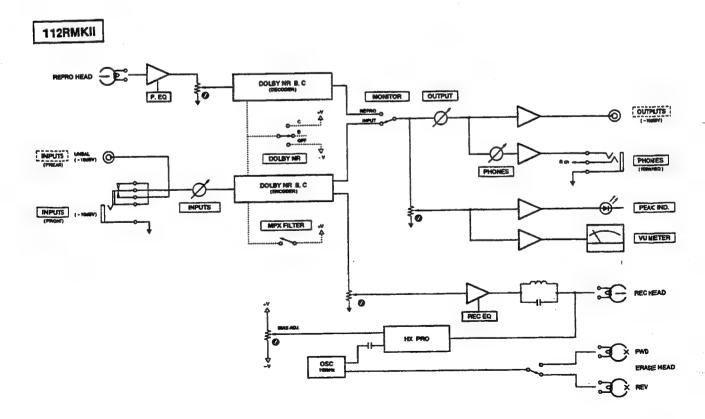
Parts marked with * require longer delivery time.

122MKII/112RMKII/112MKII

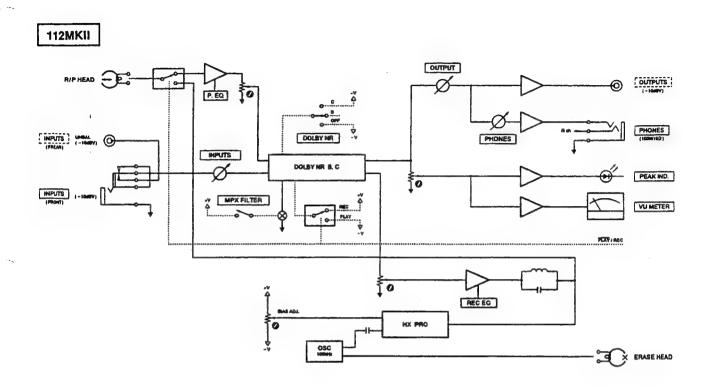
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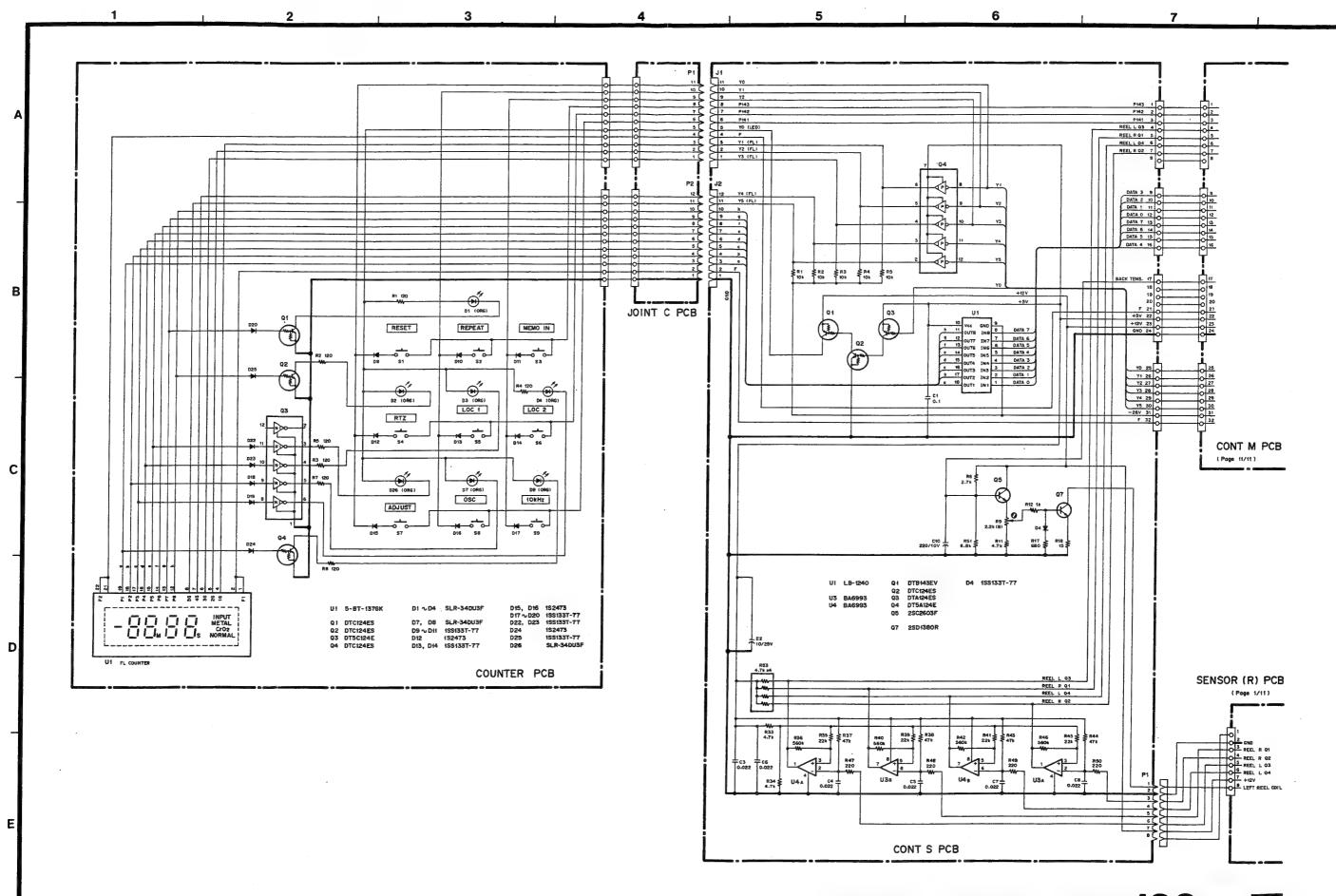
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122MKII/112RMKII/112MKII





Stereo Cassette Deck 122MKIII

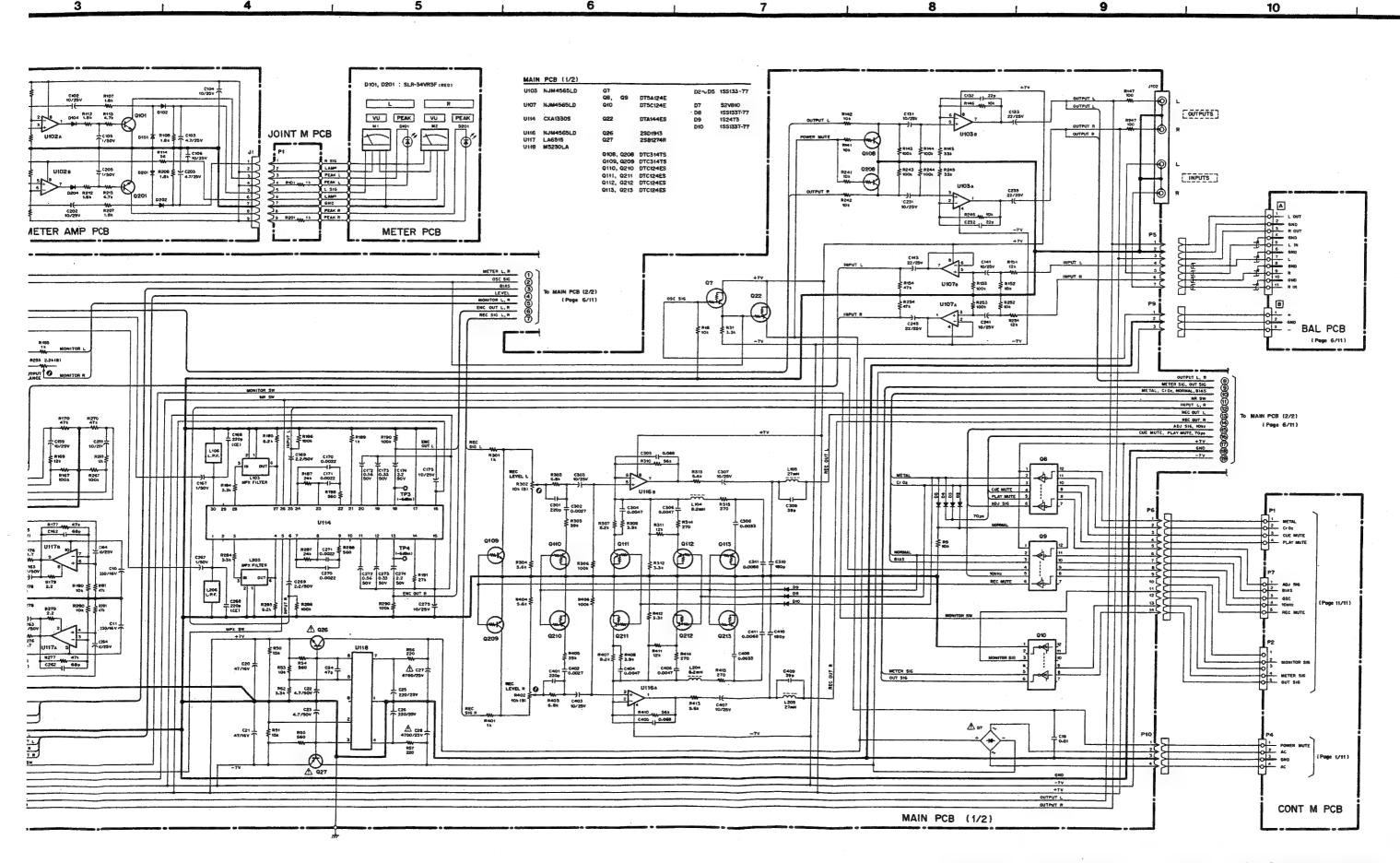
(Page 2/11)

MAIN PCB (1/

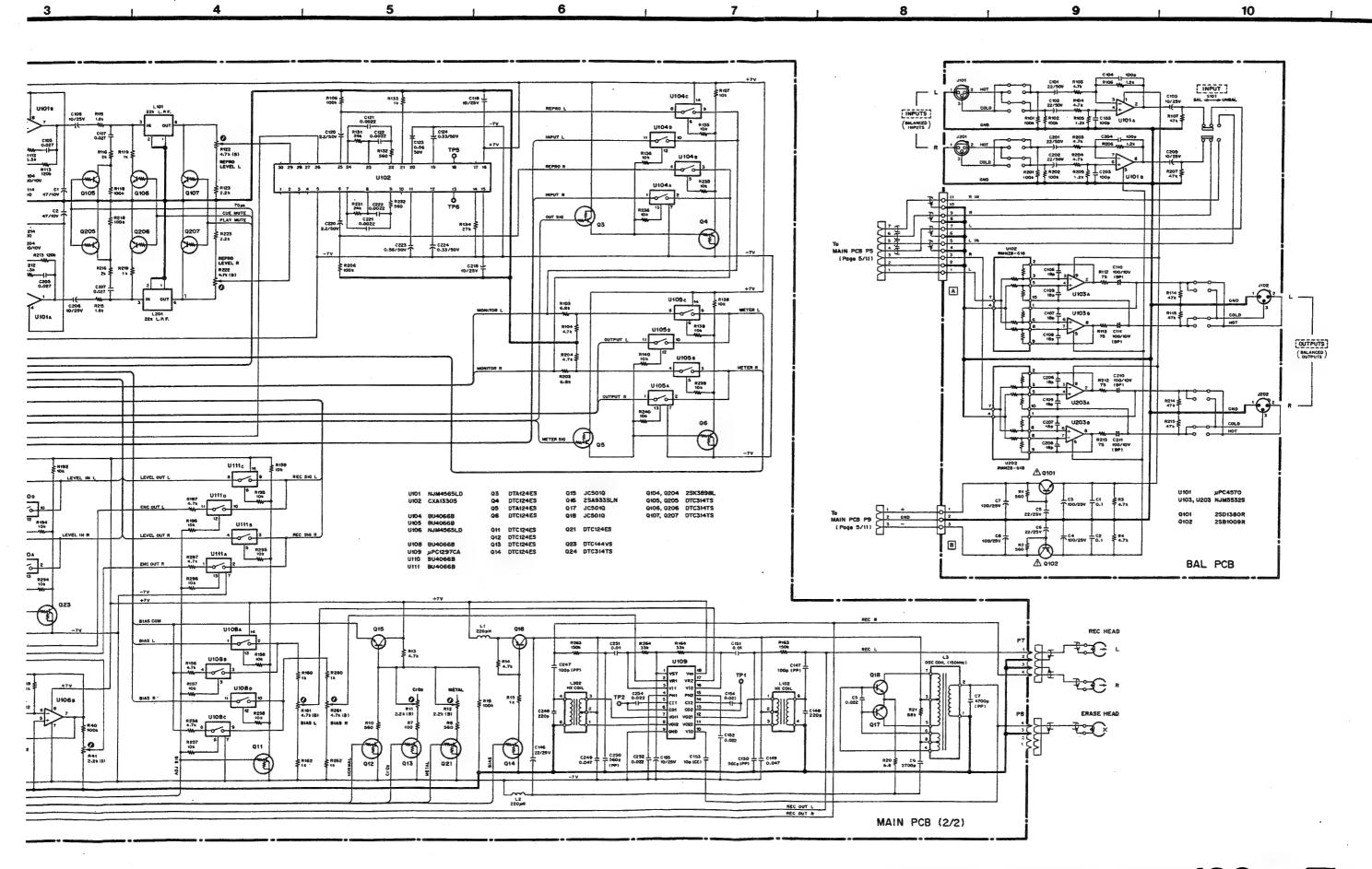
DOLBY NR

(Page 5/11)

JACK PCB

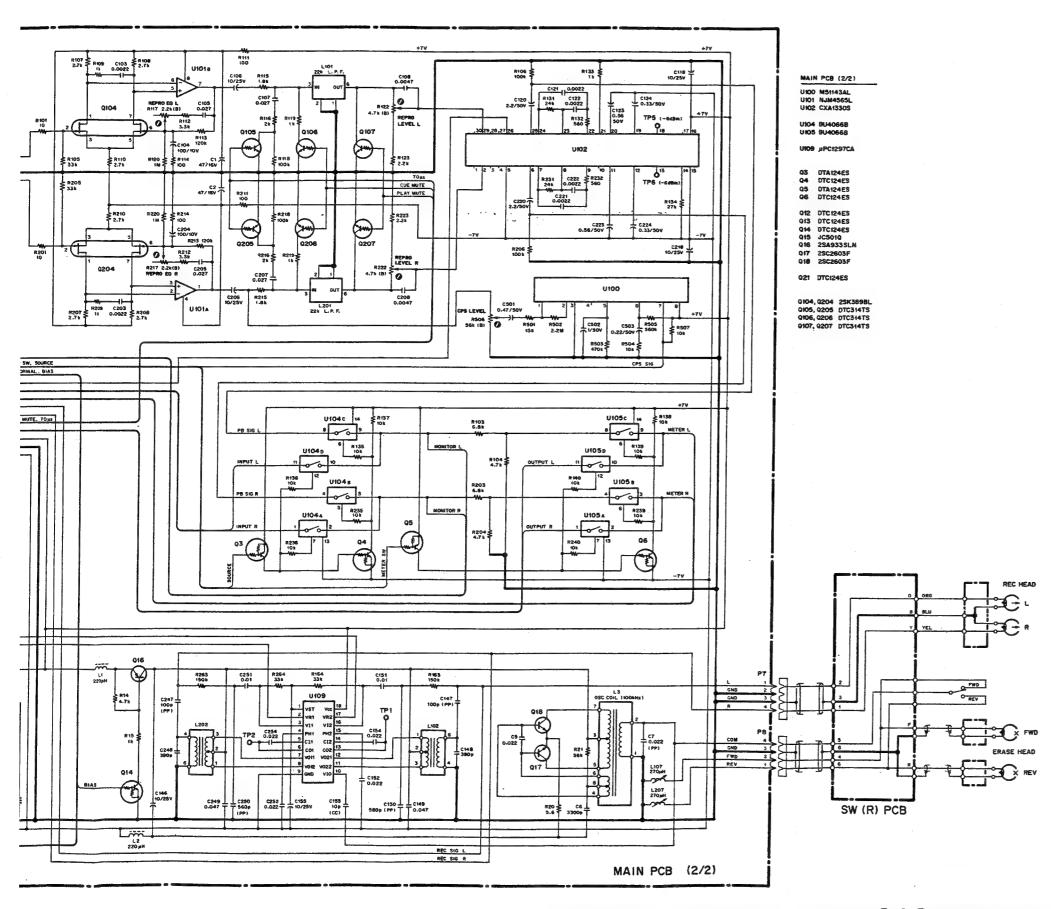


Stereo Cassette Deck 122MKIII



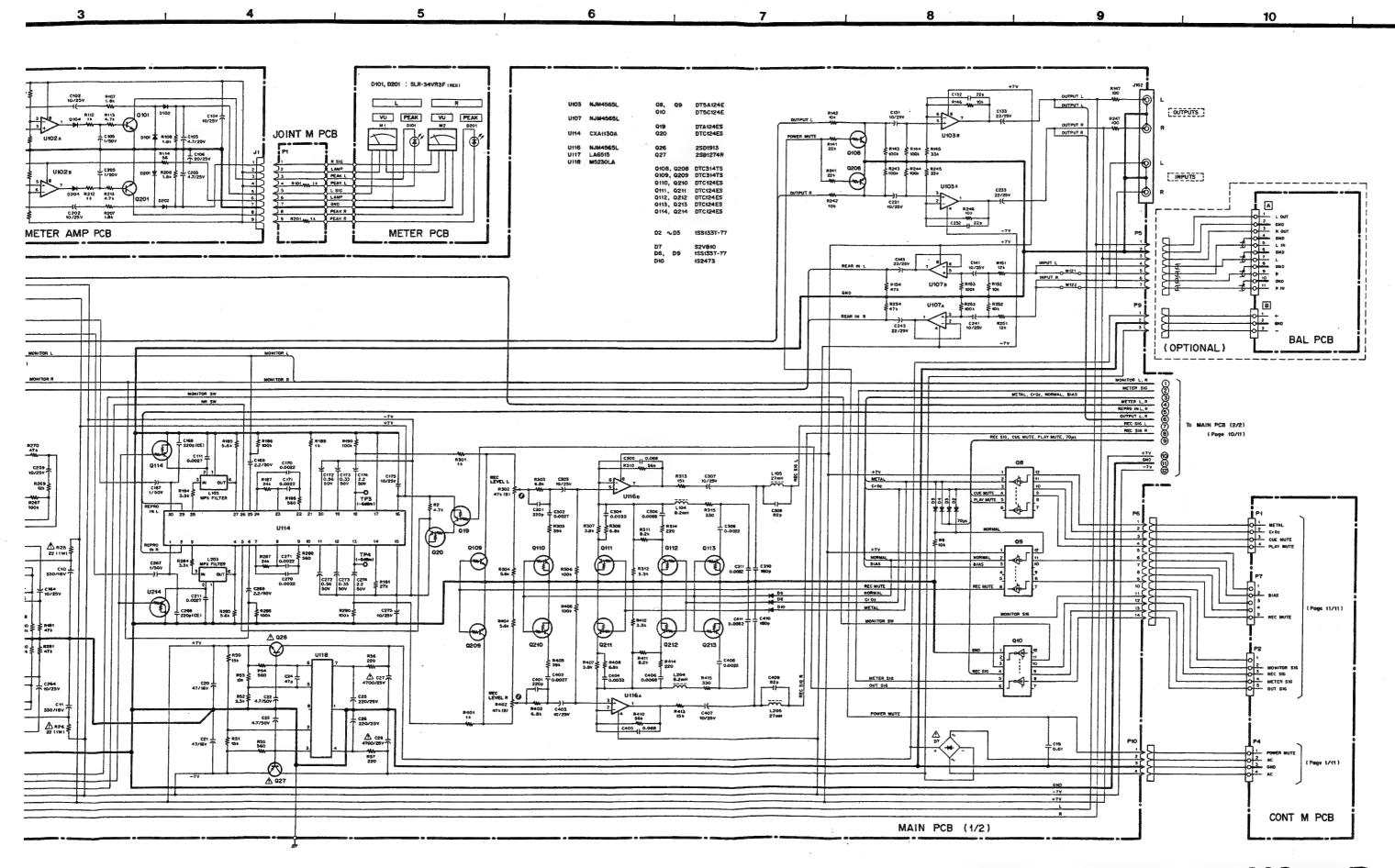
Stereo Cassette Deck 122MKIII

Stereo Cassette Deck 112RMKII

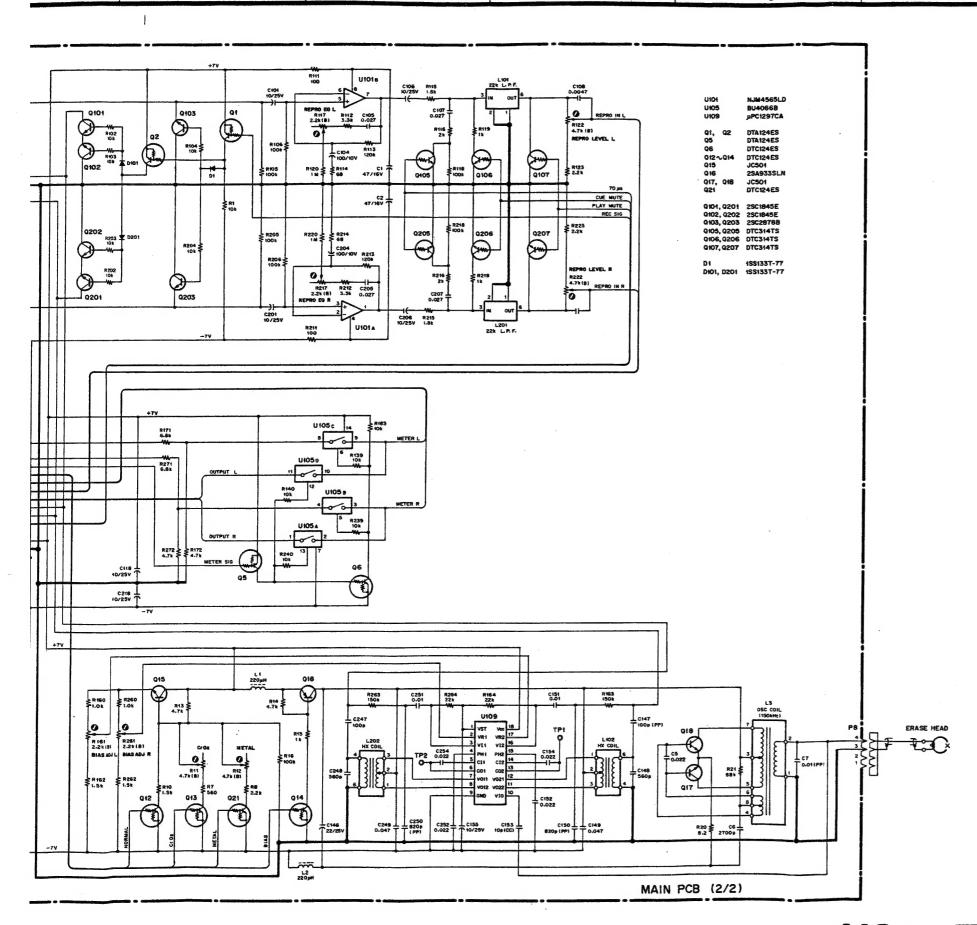


Stereo Cassette Deck 112RMKII

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Stereo Cassette Deck 112MKI



Stereo Cassette Deck 112MKII

122MKIII/112RMKII/112MKII

CONT M PCB (1/2)

To CONT M PCB (2/2) (Page 1/11)

REW F FWD STOP

OP SW PCB